CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, March 4, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(denotes that this work is advertised in Engineering News.)*

The following plans (P.) and Specifications (S.) are on file and may be seen at office of The Engineering News Publishing Co., 220 Broadway, New York.

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RAILWAYS.

ALBERTA & GREAT WATERWAYS.—The Alberta Government will guarantee the bonds of this company to the extent of $20,000 per mile to build a line from Edmonton, Alta., to Fort McMurray with a guarantee to $400,000 for terminals at the latter place.

ARKANSAS ZINC BELT.—Contract has not been let yet for building this line. Company proposes to build a line about 30 miles long, all in Marion County, Ark., from Rush Creek north to Yellville and Stone, Ark., connecting at Yellville with the Missouri Pacific System. The directors are W. H. Gore, W. L. Johnson and Henry A. Allen, Chicago; Frank Pace, Little Rock; Troy Pace, Harrison, Ark.; J. H. Thompson, W. E. Layton, Edward B. Griswold, R. L. Berry, A. W. Estes and H. Wells, Yellville, Ark. Noted on Feb. 4.

ASHERTON & GULF.—Work on the Nueces Valley, Rio Grande & Mexico Ry., which was organized to build a line from Eagle Pass, Tex., east to Aransas Pass, about 300 miles, is now under way by the J. F. BURNS CONSTRUCTION CO., of Devine, Tex., on the 32-mile section from Artesia, Tex., west to a point on the International & Great Northern Ry. at Asherton, Dimmet County. The name of the company has been changed to the Asherton & Gulf Ry., with headquarters at Asherton. Grading is finished on 20 miles and tracklaying is to be begun at once. A. Richardson, Pres., and R. H. Gresham, Ch. Engr., Artesia.

CANADIAN PACIFIC.—Company will connect the gap between Lanigan and Wynard, Sas., a distance of about 27 miles, this spring, it is stated.

The following improvements will be made this year on western lines of the Canadian Pacific Ry.: New terminal yards at Moosejaw, Sask., $150,000; steel bridges at Wardner and Elko, $200,000; 19 large wooden trestles in the vicinity of McLeod, Alta. In addition the company will spend $2,000,000 this summer on irrigation work at Calgary, Alta.

The following lines and improvements will be undertaken by the company this year: Portal branch, ballasting 50 miles; new line westward from Weyburn, 50 miles; grade reductions between Swift Current and Medicine Hat, Alta., to cost $100,000; laying 85-lb. steel on the Edmonton branch, to cost $125,000; extension of branch from Lacombe, 35 miles; completion of the new line between Lethbridge and McLeod.

CANADIAN WESTERN. — Charter has been granted this company by the Dominion Government. Company intends to build a railway through Southern Alberta from Calgary to the International boundary, and a branch line from Pilcher, Alberta, into the rich lumber territory of the Elk River Valley, British Columbia. The line will be continued south from the boundary to Butte, Mont., taking in all the important centers, including Helena and Boulder, and connecting at Butte with the Chicago, Milwaukee & St. Paul Ry., at Helena with the Northern Pacific Ry. and at Browning with the Great Northern Ry. The final survey will be completed in the spring. The promoters are: O. A. Robertson and F. B. Lynch, of St. Paul, Minn.; F. E. Kenaston, of Minneapolis; and O. L. Boynton, of Winnipeg, Man.

GULF, TEXAS & WESTERN.—John T. Witt, Ch. Engr., Jacksboro, Tex., advises us that construction work on this line is progressing. The D. J. GRIGSBY CONSTRUCTION CO., Dallas, Tex., is the contractor. Steel for 50 miles, 30 cars and two engines are en route. Company will be operating construction train in 30 days. The line will be 500 miles long and will run from Burr's Ferry, on the Sabine River, to Lubbock, Tex., as noted on Feb. 18. Surveys have been made and right-of-way secured from Tyler to Benjamin, Tex. Company will use 63 miles of all graded roadbed of the Dallas, Pacific & Southeastern Ry.; 20 miles are now under contract from Jacksboro west and other contracts will be awarded. Roy C. Megargel is Pres., 5 Nassau St., New York.

MANITOBA & GREAT NORTHERN.—Company has applied to the Manitoba Legislature for incorporation. Louis N. Hill, Robert I. Farrington, James Hisher, Charles P. Wilson and John Francis Fisher are incorporators. The bill gives permission to the company to build lines of railway from Winnipeg to Brandon, Manitoba, and from Brandon to Elkhorn, Manitoba, and thence westerly to the boundary of Saskatchewan. From Morden the line will go to Rathwell, in Manitoba, and thence north to meet the Winnipeg-Brandon line. The capital stock will be $2,500,000. The general offices are to be in Winnipeg, Man. The company is to have power to buy inland lines from Greetna to Portage, La Prairie and from Morden to the boundary.

NORFOLK & WESTERN.—Directors of the Norfolk & Western Board have authorized the construction of seven miles of double track in West Virginia west of Iaeger, and 31 miles of double track between the Ohio River and Columbus, Ohio, at congested points. This work will include considerable revision of lines and grades and will be begun at once. The cost will be about $1,225,000. "This is one of the first instances of a resumption of important construction work on the part of any leading eastern railroad since the beginning of the panic," states the New York "Commercial."

NUECES VALLEY, RIO GRANDE & MEXICO.—See Asherton & Gulf Ry.

OREGON R. R. & NAVIGATION CO.—J. P. O'Brien, Gen. Mgr., Portland, Ore., is reported to have completed estimates for the rebuilding of the main line between The Dalles, Ore., and Quinton, and they will be submitted at once to J. C. Kruttschnitt, Director Maintenance and Operation, Chicago, for approval. An expenditure of $654,000 will be required, and it is the second link of reconstruction of the system. The work will eliminate sharp curves and high grades. The saving in distance is 1,300 ft.

SAINT LOUIS, OKLAHOMA & TEXAS.—This company will be organized at Mount Vernon, Tex., to build a railway line from Mount Vernon via Sulphur Bluffs to Paris, Tex.; J. M. Fleming is Pres.; J. L. Rutherford, Vice-Pres.; A. J. Patton, Secy., and Treas; M. J. Healy, Supt., and Gen. Mgr.; S. D. Goswick is General Attorney. J. E. Mattison, J. H. Majors, M. L. Edwards and G. T. Hill are directors.

SOUTHERN PACIFIC.—The directors of the Southern Pacific Co., on Feb. 19, adopted resolutions asking the stockholders at the annual meeting on April 7 to authorize an increase of the common stock by $100,000,000 of which as much as necessary is to be set aside to provide for an issue of about $82,000,000 4 per cent 20-year bonds, convertible until June 1, 1919, at the option of the holder, into common stock at 130, and redeemable at 105 on March 1, 1914, or on any semi-annual interest day thereafter. As stated in the last annual report of the company, the advances by it to the proprietary companies for the construction of extensions, for additions, betterments, equipment and terminal properties and for the construction of new lines and for the acquisition of properties deemed important in the development of the business, or in the economical operation of the properties, of the several companies constituting the system, and expenditures directly for such purposes up to June 30, 1908, amounted to $103,332,585, as follows: Construction of new lines not yet financed by the companies directly owning them, $44,310,194. Purchase of new lines not yet financed, and other property, $11,309,291. Advances for account of electric lines, $5,520,914. Rolling stock (444 locomotives, 310 passenger train cars of all kinds, 7,051 freight train cars of all kinds, and 57 road service cars), $18,424,447. Steamships and other floating equipment (13 ocean steamships, four tugs and 42 barges), $7,900,962. Real estate and other property, principally terminal real estate in San Francisco and in other localities, $15,860,787. Total, $103,332,585.

TEXAS.—The City of San Antonio through the Business Men's Club, will consider propositions from capitalists or railway builders in connection with project to build a railway from San Antonio to Brownsville, a distance of about 300 miles. The City of San Antonio has $100,000 of which it is prepared to give $75,000 as a cash bonus and the remainder to be used in obtaining right-of-way to the Bexar County line and securing terminals within the city. Capitalists are stated to be figuring on this proposition, but as no definite contract has as yet been submitted the Business Men's Club of San Antonio is free to entertain propositions from any capitalists or railway builders wishing to build this line. The City of San Antonio does not intend to build this road itself, nor does it wish to employ any engineers to make preliminary surveys, nor does it wish to finance the road itself. The city and the people of the country through which the line will pass are willing to give as a bonus, either in lands or money, approximately $1,000,000 and to make contracts with responsible railway builders, who in turn will be required to give evidence of substantial financial backing and to furnish satisfactory bond. John B. Carrington is Secy.

TILLSONBURG, LAKE ERIE & PACIFIC.—This railway line has been acquired by the Canadian Pacific Ry. Co., which seeks authority to build from Ingersoll to Collingwood, Ont. A clause has been added to the application making it necessary for the company to obtain the consent of the municipalities and cities before using streets or roads.

ELECTRIC RAILWAYS.

(denotes that this work is advertised in Engineering News.)*

LEBANON, CONN.—We are officially advised that the Lebanon St. Ry. Co. will build a line from Yantic to South Manchester, 28 miles long, but that company is not ready to begin construction. Right-of-way and capital have not been secured or survey made. L. E. Livermore is Pres., and L. P. Smith is Secy., Lebanon.

LONG ISLAND CITY, N. Y.—The Long Island Railroad Co. is making active preparations for the practical rebuilding of the North Shore Division of its system into a double-track road, and its conversion from a steam line into a third-rail electric system, according to the New York "Evening Post." P. H. Woodward, representative of Ralph Peters, Pres., announced this week that all the plans for the improvement have been completed and the total cost will be close to $3,000,000. The work will entail the laying of 30 miles of tracks from Long Island City through Flushing, College Point, Malba and Whitestone to the terminus of the division at Port Washington. The improvement has been under consideration for some time, but the beginning of work has been delayed until the passenger traffic was sufficient to justify the immense cash outlay. Mr. Woodward says that the upbuilding of the North Shore has been so rapid that the double-tracking and electrification of the North Shore Division is now the first consideration of the company. The transportation records since the first of the year show a gain of 700 commuters over the figures for the corresponding period of last year, an increase of 11%.

ALLENTOWN, PA.—M. H. Bochow, Pres. of the Inter-County Electric Co., Allentown, advises us that company probably will let contracts in about 30 days for building its proposed electric railway. It will run from Allentown to Lyons, Pa., 20 miles. Surveys are made and right-of-way and capital are secured.

PITTSBURG, PA.—We are officially advised that the Pittsburg & Chester Elec. Ry. Co. has made surveys and secured right-of-way for its proposed line from East Liverpool to Pittsburg, 34 miles. J. M. Reed is Pres., Box 1146; Geo. H. Switzer, Bath, N. Y., is Ch. Engr.; J. H. McLarn, Murdocksville, Pa., Treas.

GIRARDVILLE, PA.—We are officially informed that the Schuylkill Ry. Co. is making surveys for the extension of its lines from Maizeville to St. Clair by way of Frackville; and a short line from Maizeville to Shenandoah, making nine miles of new track and giving the company an entrance into Pottsville, Pa., and a high-speed through line from Shenandoah, Mahoning City, Ashland, Girardville and Frackville, to Pottsville. J. H. Eby, of Lancaster, Pa., is Engr.-in-Charge of Location. The company will reconstruct its present lines and build a new power house and will be in the market this year for cars, power-house equipment, etc., besides the work of building the lines. Address G. H. Gerber, Pres., Reading, Pa.

HINTON, W. VA.—James I. McCreery, of Hinton, has secured a franchise for an electric railway to be built from Hinton to Red Sulphur Springs and Union, W. Va. The first section is along New River and Indian Creek to Red Sulphur Springs, 20 miles.

WILLIAMSTON, S. C.—H. H. Prince, Greenville, S. C., representing the Greenville Interurban Railway, Greenville, S. C., has been granted a franchise by the City Council. The franchise will be void after eight months if work is not begun and the line must be completed twelve months after work is begun. The proposed electric railway will connect Greenville and Williamston.

FORT PAYNE, ALA.—The Alabama Railway & Power Co., it is announced, plans to begin work on its proposed line this year to connect Birmingham and Chattanooga. Noted fully on Feb. 11.

PARIS, KY.—The Paris & Mount Sterling Ry. Co., it is stated, is not yet ready to begin construction on its proposed railway, which will run between Mount Sterling, North Middletown and Paris. The line will be standard-gage and will be 23 miles in length. Capital stock, authorized, $100,000. Officers: John T. Collins, North Middletown, Pres.; R. J. Neeley, Paris, Vice-Pres.; H. C. McKee, Mount Sterling, Secy.; Robert Talbott, Paris, Treas.

PAINESVILLE, OHIO.—The Painesville & Youngstown Ry. Co. has organized. Company plans to build an electric railway which is to extend through Leroy, Windsor and Warren. H. B. Hammer is Chn.; O. A. Bartlett, Leroy, Pres., and F. H. Murray, Painesville, Trustee.

POLAND, OHIO.—The Poland, Boardman & Canfield Railway Co. will build an electric railway between Poland, Boardman and Canfield. Headquarters, 23 East Front St., Youngstown, Ohio. Henry Stambaugh is Pres.; S. J. Dill, Vice-Pres.; David Tod, Secy. and Treas. These officers are also connected with the Youngstown & Southern Ry. Co.

CHARLESTON, ILL.—Contracts probably will be awarded this spring by the Charleston, Westfield, Marshall & Terre Haute Electric Ry. Co. for building its projected electric railway between Charleston, Westfield, Marshall and Terre Haute. Capital stock, $5,000. W. R. Patton, Charleston, is Pres.; James Dawson, Westfield, Vice-Pres.; Seymour Hurst, Marshall, Secy.; J. W. Biggs, Westfield, Treas.

SIOUX CITY, IOWA.—At a recent meeting held in Le Mars, Iowa, this town voted a 25-year interurban and street railway franchise to the Sioux City & Spirit Lake Ry. Co. The town of Paulina has also voted a similar franchise to this company. Other towns which previously had granted franchises to the company were Primghar, Hartley and Spirit Lake. All of the up-county franchises of this company have been secured and deeds have been secured to more than two-thirds of the right-of-way, it is said. The line will be 108 miles in length and will run from Sioux City northeasterly to Spirit Lake. Frank Patch is Pres. General offices, American Block, Sioux City. Noted on Dec. 10 and Oct. 22, 1908.

DES MOINES, IOWA.—The Des Moines City Railway Co. contemplates the expenditure of $1,000,000 in improvements and extensions to its system, it is stated, providing a settlement of the present difficulty can be effected with the city. The company plans the double tracking of a number of lines, as well as a new line betwen the Ingersoll and University lines, and an extension to the southwestern part of Des Moines. A number of new cars will be purchased and large additions made to the power-house equipment. J. E. Welch is Ch. Engr.

MINNEAPOLIS, MINN.—The Twin City & Lake Superior Ry. Co. probably will let contracts in April for building a double-track third-rail line from Minneapolis, Minn., northeast via St. Paul, Minn., and Superior, Wis., to Duluth, Minn., 130 miles. Contracts have been let as follows: From the lower St. Croix River to upper St. Croix, 33 miles, to WESTERDAHL & CARLSON, and from upper St. Croix to Superior, Wis., 60 miles, to SMITH & JONES. Track is laid from Minneapolis to Coon Lake, 25 miles. There will be two large bridges. J. H. Thomas is Ch. Engr., 440 Railway Bldg., Minneapolis. Noted on May 28 and July 2, 1908.

GREAT FALLS, MONT.—The Freeholders of Great Falls have granted to G. Calvin Bower and his associates a franchise for a street railway over certain streets of Great Falls in connection with their proposed electric railway between Great Falls and Choteau. Noted fully on Aug. 27, 1908.

GAINESVILLE, TEX.—Construction work on the Gainesville, Whitesboro & Sherman Interurban Ry. has been discontinued on the line from Gainesville, Tex., east to Sherman, 39 miles. About twelve miles of grading has been completed from Gainesville. Track laying has been indefinitely postponed.

FORT WORTH, TEX.—The Southern Traction Co., it is stated, will build a gasoline motor line between Fort Worth, Everman, Burleson, Joshua and Cleburne. The permanent location surveys will be made at once. Connections will be made with the International & Great Northern Railway at Fort Worth and Everman; with the Houston & Texas Central Railway between Fort Worth and Everman; with the Missouri, Kansas & Texas Railway at Burleson, and with the Gulf, Colorado & Santa Fe at Cleburne. The company has not yet decided when contracts will be awarded for material and equipment. Headquarters, Room 28, Dundee Bldg., Fort Worth, Tex. Trustees: S. B. Hovey, H. H. Cobb and T. Yarbrough, all of Fort Worth.

OAKLAND, CAL.—The Oakland & Antioch Ry. Co. has been incorporated to construct an electric railway, estimated at 30 miles in length from Oakland to the town of Bay Point in Contra Costa County. The survey for the route has already been made. Principal office, San Francisco. Capital stock, $2,000,000, of which $30,000 has been subscribed. Directors: A. W. Maltby, Concord; S. L. Naphthaly, Allan Pollok, Walter Arnstein, F. W. Smith, San Francisco; F. S. Brooks, Alameda; H. A. Mitchell, Berkeley. Noted on Aug. 13, 1908.

MEDICINE HAT, ALTA.—The Southern Alberta Ry. has obtained a charter and will at once build an electric railway here and through adjoining districts. A. M. Grace, Medicine Hat, Alta., is interested.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

WAPPINGERS FALLS, N. Y.—The contract for the construction of the extension to the municipal electric light plant has been awarded to STEHLIN-MILLER CO., 103 Park Ave., New York. N. Y., for $9,150.

NEW YORK, N. Y.—Bids are asked until 11 a. m., March 27, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing and installing condensing equipment and piping for one 1,000-KW. alternator at the navy yard, New York.

The Municipal Art Commission on Feb. 16 approved the designs for the proposed lighting fixtures for the new Police Headquarters in Center St., to cost $20,000.

NEW YORK, N. Y.—Bids are asked until 3 p. m., March 15, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, Park Ave. and 59th St., for installing electric equipment in addition to and alterations in Public School No. 126, on the northerly side of Meserole Ave., between Lorimer and Guernsey Sts., Boro. of Brooklyn; for installing electric equipment in addition to and alterations in Public School No. 128, on the northerly side of 21st Ave., between 83d and 84th Sts., Boro. of Brooklyn; for installing electric equipment in new Public School No. 160, on the southerly side of Fort Hamilton Ave., between 51st and 52d Sts., Boro. of Brooklyn; for installing electric equipment in new Public School No. 163, on the southerly side of Benson Ave., between Bay 14th St. and 17th Ave., Boro. of Brooklyn; for completing and finishing the installation of electric equipment in new Public School No. 89, on the southeasterly side of Orchard Ave., between Fifth and Sixth Sts., Elmhurst, Boro. of Queens, in accordance with the original plans and specifications of contract awarded to L. F. Benn, which has been declared abandoned.

NEW YORK, N. Y.—Bids are asked until 11 a. m., March 27, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for additional machinery for the power plant at the U. S. Navy Yard, New York. Specifications are on file at the office of Engineering News, New York.

POUGHKEEPSIE, N. Y.—Bids are asked by the State Commission in Lunacy until 3 o'clock p. m., March 24, for power-house, coal pocket, trestle and conduit, construction, including plumbing; also conduit for Acute Hospital, construction including steam piping, at the Hudson River State Hospital at Poughkeepsie, N. Y. The work for the power-house does not include boiler or other equipment. T. E. McGarr, Secy.; F. B. Ware, State Arch., the Capitol, Albany.

KINGS PARK, N. Y.—Bids are asked by State Commission in Lunacy until 3 p. m., March 24, for power-house, coal pocket and conduits, construction, including plumbing and electric work; and for laundry building, construction, including heating, plumbing and electric work, at the Kings Park State Hospital, Kings Park. The work involved does not include boilers or other equipment in the power-house or laundry machinery. T. E. McGarr is Secy.; B. F. Ware is State Arch., Capitol, Albany.

FREDERICKSBURG, VA.—We are officially advised that the Electric Generating Co., of Fredericksburg, Va., will build a plant to be equipped with a horizontal turbine water wheel, two 38-KW. direct-current exciters, 25-ton, 3-motor traveling crane, etc. The building will be 42 × 62 ft. and, with the equipment, will cost about $150,000. R. M. Van Dorn, Exchange Hotel, Fredericksburg, is Engr.-in-Charge of the work. Bids for work will be taken at once.

CHARLOTTE, N. C.—Bids are asked by the city until March 15 for lighting streets and other public places with electricity for five years from Aug. 15, using not less than 250 arc lamps. A. H. Washburn, Chn. Light Com., Bd. Pub. Service, City Hall.

SENECA, S. C.—The contract for the construction of the municipal electric light plant has been awarded to the PIEDMONT ELECTRIC CO., of Anderson, S. C. The equipment will include a 3-phase, 60-cycle, 2,300-volt generator; a 95-HP. engine and a 115-HP. boiler. The street lighting system will consist of 20 arc lamps and 18 incandescent lamps. Bonds to the amount of $25,000 have been voted for the construction of the plant.

ATLANTA, GA.—The Supervising Architect of the Treasury, Washington, D. C., opened bids as follows on March 2 for a conduit and wiring system in the post-office building at Atlanta, Ga.: William A. Corrao Electric Co., St. Louis, $14,652; Carter & Gillespie Electric Co., $17,273; Piedmont Electric Co., Asheville, N. C., $12,750; Electrical Appliances Mfg. Co., Easton, Pa., $17,959; Hermon Andreae Electric Co., Milwaukee, Wis., $16,240; W. B. Foster Electric Co., New York, $17,600; F. E. Newberry Electric Co., St. Louis, $15,724; T. J. Mooney, Nashville, Tenn., $20,079; R. F. Fletcher, Columbus, Ohio, $16,200; McMartin Electric Construction Co., Columbus, Ohio, $15,500; Charles McCaul Co., Philadelphia, $16,400; Western Electric Co., New York, $13,875; D'Olier Engineering Co., Philadelphia, $19,704; Keller-Pike Co., Philadelphia, $17,500; F. F. Buchanan & Co., Philadelphia, $19,775; Cortlandt Engineering Co., New York, $16,594; E. J. Duggan, New York, $14,980; Chipman Electric Co., Washington, $28,618; Charles F. Brown, New York, $21,221; Carroll Electric Co., Washington, $14,500; Coburn & Cooke, Newport News, Va., $13,444. James Knox Taylor is Supervising Arch.

RICHMOND, KY.—The Eastern Kentucky State Normal School awarded contract to the COMBS LUMBER CO., of Lexington, Ky., for erection of a power-house building, and to F. A. CLEGG & CO., Louisville, Ky., for equipment.

RICHMOND, KY.—We are officially advised that bids were received by the Board of Regents of the Eastern State Normal School, Richmond, Ky., at the office of Anderson & Frankel, Lexington, Ky., Archs., on Feb. 17, for constructing a heating and lighting plant and manual training building and distributing system and heating appliances for University Hall, Eastern Kentucky State Normal School, at Richmond, Ky. Contract has been awarded to F. A. CLEGG & CO., of Louisville, Ky., for entire equipment. Estimated cost, $45,000.

NATIONAL MILITARY HOME, OHIO.—Bids are asked at the office of W. H. Ortt, Treas., Central Branch, National Home Disabled Volunteer Soldiers, National Military Home, Ohio, until March 18 for addition to the central power-house, including equipment (boiler and feed-water heaters).

THORNTOWN, IND.—Plans are now being made for the construction and equipment of a combined water, electric light and heating system in this city. A gift of $50,000 has been made to the town for the purpose of installing a water plant and the city will appropriate sufficient to insure the combined system. Contracts for the work will be awarded soon.

*GRAND RAPIDS, MICH.—Bids are asked until 8 p. m., March 11, by the Board of Public Works, for furnishing transformers and switches for sewage pumping station machinery in the city of Grand Rapids. Samuel A. Freshney is Secy. and Gen. Mgr.; Louis W. Anderson is City Engr.

MERRILL, WIS.—Contract has been let to the WESTERN ELECTRIC CO., 259 South Clinton St., Chicago, Ill., for installation of additional machinery at the Grandfather Falls plant. The equipment will include a 1,100-KW. generator, switchboard and one 140-HP. exciter set in the power-house, and a 1,100-KW. transformer at the mill. The cost of the improvements is estimated at $25,000.

DUBUQUE, IOWA.—The Farley & Loetscher Mfg. Co. has completed plans for the erection of a power-house on the corner of Eighth and White Sts. The proposed structure will cost approximately $25,000. The dimensions of the power-house will be 50 × 100 ft. It will be made of concrete and brick. It will be fireproof. Power for the factory will be furnished from the new plant. Work will be commenced about March 15, weather permitting, and will be completed about Aug. 1, according to plans.

The contract for the br... work has been let to SKEMP & SONS.

TOPEKA, KAN.—Regar... the press re... reports that estimates are ... made for the cost of equipping the A... Co., Topeka & Santa Fe Ry. with ele... power from Trinidad to Raton, a di... of 20 miles. C. A. Morse, Ch. Engr., ... advises us that this work is not ... plated.

FORT YELLOWSTONE ... O.—Bids are asked by Lieut. G. C. Sm... onstr. Q. M. Fort Yellowstone, Wyo., ... March 13 for construction of electric ... house. Also at the same place and dat... parate proposals will be received for ... ment for the power plant as follows: ... ree 280-HP Francis type water turbin... h governors complete, 940 r. p. m., to ... under a head of 280 ft.; three 150-KW ... t-connected revolving field, 3-phase, 2... r 2,300-volt, 60-cycle, 950 r. p. m. gen... and three 8-KW. exciters, with swi... rd and all connections; approximately ... ft. of 20-in. spiral, ¼-in. thick, ... steel beastock, including air chamb... he lighting equipment for an electri... ower-house. These items should be bi... separately, but a lump sum for the wh... paratus will be considered.

ST. LOUIS, MO.—The con... for lighting the downtown streets fo... term of ten years, beginning Sept. 1, ... has been awarded by the Board of P... Service to the UNION ELECTRIC LIG... & POWER CO. Under the new contract ... cost of arc lamps will be reduced from ... to $55 per lamp per year, which will m... a saving to the city of more than $516,... ten years. The Board has also approved th... plan of the Downtown Lighting Associa... to install 470 artistic electroliers in th... business district, now lighted by 136 arc ... lamps. Arthur Williams is Gen. Mgr. of the company.

TERRELL, TEX.—We are officially advised that bids were received by the city on Feb. 15 for erection of an electric light plant. Frame buildings of ordinary construction, 48 × 92 ft., will be erected at a cost of $2,000. Steam and electric machinery to cost $15,000 is to be installed. Contract has been awarded to HUSTON & CUNNINGHAM, of New Orleans, La. W. C. Drake is Engr.-in-Charge. E. R. Miller is City Clerk.

TENINO, WASH.—Contract has been awarded by the Tenino Light, Water & Power Co. for the construction of a power-house and installation of an additional 150-KW. alternator, a 200-KW., 500-volt, direct-current generator, and a 250-HP. Corliss engine, to EDWIN C. ADMME CO., of Portland, Ore. The transmission line from Blumauers to Tenino is finished and it is expected to have the plant completed in about 60 days.

WASHTUCNA, WASH.—Codd & McKenzie, of Colfax, Wash., announce their intention to begin building a power plant at the great falls of the river, seven miles southeast of Washtucna. Codd & McKenzie own 80 acres of land, extending on both sides of the river. The falls, according to government measurements, are 198 ft. high. With the prospect of the building of the plant the talk of a flouring mill is revived, as is also the lighting of towns in this section by electricity. A supply of power for irrigation also will be available if the owners of the falls carry out their project as announced.

EUGENE, ORE.—At a meeting of the Common Council held on Feb. 15, the contract for construction of the proposed Waterville power canal was awarded to SAMUEL MANERUD, of Eugene. He is to receive a total of about $51,855 for construction of the canal, his bid having been the lowest of a total of five submitted. Following are the bids and the contractors who submitted same: Coughlan & Woldson, Vancouver, Wash.; (a) excavating earth, per cu. yd., 40 cts.; (b) excavating cement gravel, cu. yd., 55 cts.; (c) excavating solid rock, cu. yd., 90 cts.; agree to complete the work on or before Oct. 1. J. P. Porter, Vancouver, Wash., (a) 45 cts.; (b) 55 cts.; (c) 70 cts.; Oct. 1. J. R. Mitchell, Portland, Ore., (a) 50 cts.; (b) 65 cts.; (c) 95 cts.; Sept. 1. Samuel Manerud, Eugene, (a) 31½ cts.; (b) 75 cts.; (c) $1.50; Oct. 1. E. T. Johnson & Co., Portland, Ore., (a) 43 cts.; (b) 55 cts.; (c) $2; five months.

REDLANDS, CAL.—The Domestic Water Co. is planning to erect a transformer station at the corner of Reservoir and Crescent Aves.

BISHOP, CAL.—Negotiations are being made for water rights on the upper King's River, where, it is stated, a power plant to cost about $9,000,000 is to be erected. About 250,000 HP. will be developed, which will be transmitted by electricity to various parts of the San Joaquin Valley, as far south as Los Angeles, and north to San Francisco. Work on the plant will begin as soon as the weather will permit. T. L. Oddie, of Tonopah, Nev., and S. G. Musser, Big Pine, Cal., are interested.

GLOBE, ARIZ.—The Globe Gas & Electric Co. is planning to enlarge its plant. According to plans, pipe lines will be extended to all parts of the city.

SALT LAKE CITY, UTAH.—The Utah Light & Railway Co. is planning improvements in public service. Within a short time a second 75-ton, 3,000-HP motor-generator, costing $35,000, and the duplicate of the one just installed, will be ordered and located immediately west of the one now in operation in the West Temple St. power station. It is the intention of the company to erect an emergency plant at the Jordan River, with a steam power equal to one-half of the total demands made on the present plant; and which will cost probably $500,000. The engines will be of turbine pattern, which has been found to be the most economical in operation. The company engineers are now completing the plans and specifications for the improvement. Joseph S. Wells, Salt Lake City, is Gen. Mgr.

DORCHESTER, N. B.—According to newspaper reports, the tides of the Bay of Fundy will be developed by the Fundy Tidal Power Co. James Friel, of Dorchester, N. B.

makes the ...plication on behalf of the company for ... act of incorporation. In its petition the ...mpany seeks to be empowered to ...ctric power from the tidal flow of certain ...vers and basins emptying into the Bay of ...undy. The company seeks authority to ...nstruct dams across the Petitcodiac ... between Moncton and Fort Folly Po... and across the Memramcook River, in... Brunswick, and across the Shepody ...ramar, Aulac, Missiquash, La Planche, ...can, Nappan, Hubert, Avon, Shubenac... and Stewiacke rivers, the head of the C... Basin and the Basin of Minas, in... Scotia. The proposed dams are to b... structed and operated subject to the ... with reference to navigable rivers.

GRAND FALLS, N. B.—We are officially advised ... the contract for the construction work inv... in the hydro-electric development of ... Grand Falls Power Co. on the St. John Riv... Grand Falls, has been placed in the ... of the Frank B. Gilbreth organization, ...4 West 28th St., New York. John B. ...kae, of Ottawa, Ont., is the Ch. Engr. and ...Ralph Mershon, of New York, is Engr. ... Engr. This plant will generate the Elec... in electric current, which will be furnished ... to the various cities throughout New Bru...wick and Maine. The work involves the construction of a number of shafts in rock ...excavation 130 ft. deep, a power chamber ... x 260 ft. and 130 ft. deep, and a tail race ...nnel 28 ft. in diameter and 2,400 ft. long, a power-house 150 ft. long and 260 ft. wide. The intake shafts will be nine in number ... and 12 ins. in diameter, 130 ft. deep. The plant will be equipped with hydraulic and electrical machinery for high potential and long distance transmission. Actual construction will be begun immediately and will be pushed through to completion at an early date. The falls and water power on the St. John River at this point is the largest in Eastern Canada and its development will result in the establishment of a large number of manufacturing enterprises. The total head developed will be 135 ft. Numerous auxiliary works, substations and long distance transmission lines will be erected. The St. John River at Grand Falls describes a horse-shoe curve at this point and has a fall of 135 ft. through a gorge. Grand Falls is situated on the Canadian Pacific Ry., about 200 miles north of St. John, N. B., and about two miles east of the State of Maine. The expenditure involved will amount to over $5,000,000.

WINNIPEG, MAN.—The City Council has decided to call for bids for a transformer for testing insulators. Estimated cost, $10,000. F. E. Cambridge is City Electrician.

DAUPHIN, MAN.—Bids are asked by Napoleon Tessier, Secy. of the Dept. of Public Works, Ottawa, Ont., until 4.30 p. m., March 15, for wiring the public building now being erected here.

AGUASCALIENTES, MEXICO.—At the annual meeting of the stockholders of the Aguascalientes Electric Light & Power Co. held here recently, it was decided to expend the sum of $100,000 or more in the improvement of the present plant. The principal improvement to be made will be the purchase and installation of two Diessel oil engines directly connected to alternating-current generators and exciters. The engines will be ordered at once and as soon as received here will be placed in use. The power plant in use will be held in reserve after the installation of the new engines. C. P. Doerr, Aguascalientes, is Mgr.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

SENECA FALLS, N. Y.—The Engineering force of the Geneva, Waterloo, Seneca Falls & Cayuga Park Electric R. R. is now engaged in making soundings across Cayuga Lake from the Bridgeport shore on the west side of the lake, to the Cayuga shore, to get data for plans for the bridge the company proposes to build. The bridge will be about two miles in length and will consist of three sections of steel construction and two fills. The metal sections will be located on each side of the lake and in the center.

*WOODSTOWN, N. J.—Plans and specifications are on file at the office of Engineering News, New York, for the steel superstructure of a bridge over Salem Creek, near here. Bids are asked until March 8.

*WANAQUE, N. J.—Bids will be received by the Board of Chosen Freeholders of the County of Passaic, until 2 p. m., March 17, at the office of the Clerk of the Board of Chosen Freeholders at the Court-House, Paterson, for building a steel bridge, etc., across the Wanaque River at Wanaque, near Paper Mills. Plans may be seen and specifications and forms of proposals obtained at the office of the County Engineer, Court-House, Paterson. G. W. Botbyl is Clk. Bd.

ALLENTOWN, PA.—Bids are asked until 10 a. m., March 15, by the County Commissioners for certain work and the supply of the necessary material for and in and about the repair, reinforcing and renewal of the wooden bridge over the Jordan Creek at Fourth St.

SOUTH FORK, PA.—D. F. O'ROURKE, Altoona, has secured the contract for the erection of an extension to the viaduct of the Pennsylvania R. R. at South Fork.

*CAMDEN, S. C.—Bids will be received by M... West, County Supervr., until noon, March 25, for a bridge across Wateree River, consisting of two concrete abutments, one concrete pier and two spans of steel bridge, one 375 ft. and one 130 ft. The plans and specifications may be procured from Wilson, Sompayrac & Urquhart, Consulting Engrs., Columbia, S. C., on deposit of $25.00 (which will be refunded when the plans and specifications are returned), or may be seen at the office of the County Supervisor, at Camden.

ATKINSON, GA.—Bids are being asked for the construction of a steel bridge across Great Satillo River at Ammons Ferry, near Atkinson. The structure will have two steel spans of 100 ft. each, and approaches 144 ft., and a total length of 344 ft. Ira M. Raybon is Clk. Superior Court, Jesup, Ga.

COLUMBUS, OHIO.—Plans and estimates for the construction of the Third St. viaduct over the railroad tracks were submitted by Henry Maetzel, City Engr., to the Board of Public service on Feb. 22, and by it to the City Council. The plan contemplates the extension of Summit St. southerly to Goodale St., where the viaduct approach from the north would begin. This north approach would be 300 ft. in length and 66½ ft. wide, then across the railway tracks to the south approach, the latter being 700 ft. long and reaching to Naghten St. The approaches would be of earth with masonry retaining walls, while the bridge will be of steel and wide enough for a double street car track. On the viaduct space is set apart for a cab stand and a walk leads from it to the Union station. Estimated cost, $900,000.

Bids are asked until noon, March 9, by F. M. Sayre, County Audr., for labor and material for the following work: Substructure and approaches of the "Reese" bridge over Big Walnut Creek, Hamilton Township; superstructure of the "Reese" bridge over Big Walnut Creek, Hamilton Township; permanent roadway construction on the superstructure of the "Reese" bridge; new floor system on the superstructure of the Big Darby Creek bridge on the Harrisburg Pike, Pleasant Township, Plan "A;" new floor system on the superstructure of the Big Darby Creek bridge, on the Harrisburg Pike, Plan "B;" new floor system on the superstructure of the Big Darby Creek bridge, Plan "C;" new sidewalk brackets, handrail, etc., on the superstructure of the St. Clair Ave. viaduct, Marion Township; concrete sidewalks and handrail on the superstructure of the St. Clair Ave. viaduct; sand blast cleaning and painting the superstructure of the St. Clair Ave. viaduct.

EAST PALESTINE, OHIO.—The County Commissioners have rejected all bids for the erection of the substructure and superstructure of Bridge No. 40, a short distance west of East Palestine. New bids will be asked for from the same or revised plans about the middle of this month.

CLEVELAND, OHIO.—Bids will be received by the Board of Commissioners of Cuyahoga County, until 11 a. m., March 27, for the construction of bridge work per report No. 2235, concrete culvert, Columbia road, Olmstead Township, in accordance with the form of contract and specifications to be furnished by A. B. Lea, County Surv.

ZANESVILLE, OHIO.—The MOUNT VERNON BRIDGE CO., Mount Vernon, Ohio, has been awarded contract for remodeling C. & M. V. Ry. bridge at Ellis Station. The contract calls for the removal of the under-supports of the bridge for a distance of 150 ft. and the substitution of overhead steel spans.

DAYTON, OHIO.—Getzinger Bros. submitted the lowest bid on Feb. 19 to the Board of Public Service for new flooring for the West Fifth St. bridge, at $3,413.

CROWN POINT, IND.—Bids will be received until March 27, by Charles A. Johnson, County Audr., for $75,000 of bridge bonds.

EVANSVILLE, IND.—The Evansville, Mt. Carmel & Olney Traction Co. will soon ask for bids, it is stated, for the construction of a combined traction and wagon bridge across the Wabash River.

CHICAGO, ILL.—The contract for reinforcing and repairing the Van Buren St. bridge, bids opened on Feb. 18, has been awarded by the Department of Public Works to GEORGE W. JACKSON, INC., 169 W. Jackson St., at $8,131. John J. Hanberg is Comr.

CHANDLERVILLE, ILL.—J. H. JAYNE, Monmouth, Ill., has secured the contract for the reconstruction of the steel bridge over the Sangamon River.

BRILLION, WIS.—The town has awarded contracts to JOHN WENOYTH, of Kaukauna, Wis., for the construction of three stone bridges over the Manitowoc River at about $6,000.

MANHATTAN, KAN.—Bids are asked by the County Commissioners of Riley County until noon, April 8, for the construction of a steel bridge across Fancy Creek, Center Township. George H. Hungerford is County Clk.

NEBRASKA CITY, NEB.—Bids will be received by the County Commissioners until noon, March 18, for constructing steel and wooden bridges during the year 1909. A. P. Young is County Clk.

MINOT, N. DAK.—The contract for constructing the Belyea Ave. bridge has been awarded to McDOUGALL & SON, of Minot, at $5,700. List of bidders noted last week.

HOWARD, S. DAK.—Bids are asked by the Miner County Commissioners, until 10 a. m., March 9, for building all bridges to be constructed for one year from date of contract. Robert Maley is County Audr.

MOBERLY, MO. — The STANDARD BRIDGE Co., Omaha, Neb., has been awarded contract by the County Commissioners, of $10,050, for nine steel bridges for the county.

FRANKLIN, TEX.—Robertson County will soon award contract for the erection of a steel bridge across the Brazos River. Estimated cost, $10,000 to $20,000. Ben C. Love is County Clk.

LOS ANGELES, CAL.—Bids are asked until 2 p. m., March 15, by the County Supervisors, C. G. Keyes, Clk., for the construction of a reinforced concrete bridge on Mission St.

SOUTH PASADENA, CAL.—Bids will be received until March 15 by the Board of County Supervisors, Los Angeles, for constructing a reinforced-concrete bridge on Mission St. at easterly boundary line of South Pasadena, Alhambra Road District.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

SPRINGFIELD, MASS.—The Springfield "Republican" states that its building at the corner of Main St. and Harrison Ave., is to be enlarged this spring by the addition of two stories, making it a 5-story structure. The fourth floor of the enlarged building will be occupied by the "Republican's" editorial department, and the fifth, or top floor, will be given up to the composing room. The building will be provided with a spacious passenger elevator, running up from the vestibule at the present Main St. entrance to the upper floors. The Architects of the proposed changes are E. C. & G. C. Gardner, 33 Lyman St., who designed the building originally. The construction work is to be done by E. W. SHATTUCK, who built the present structure, and D. W. MELLEN, jointly, and the contract for the steel work has been let to the BERLIN CONSTRUCTION CO., and for the terra cotta to the ATLANTIC TERRA COTTA CO. The construction work will begin about April 1.

HARTFORD, CONN.—At a special meeting of the West Middle School District, held on Feb. 15, the sum of $137,000 was appropriated for the following purposes: $40,000 for an assembly hall and $12,000 for the site; $30,000 for a building for the Noah Webster School and $55,000 for a building for kindergarten purposes. The District Committee, William H. Corbin, Chn., was named as a Building Committee. Plans by Davis & Brooks, Archs., of this city, were presented. Bids will be invited as soon as plans are ready.

LE ROY, N. Y.—Bids are asked by H. H. Falkner, Clerk Bd. of Education of Union Free School District No. 1 until 7 p. m., March 17, for the construction of a school building. Separate bids on heating and ventilating systems. F. A. Steubner is Pres.; E. E. Joralemon, Niagara Falls, N. Y., is Arch.

ALBANY, N. Y.—Following are the bids received at the office of the State Commission in Lunacy, Feb. 24:

Cold storage building, Manhattan State Hospital, Ward's Island, New York City: C. L. Dooley, New York, $14,113; Westerberg & Williams, New York, $10,727.

Staff house, Ward's Island, New York City, for the Manhattan State Hospital: John H. Parker Co., New York, $21,429; P. J. Carlin Construction Co., New York, $22,980; Chas. H. Peckworth, 415 Hudson St., New York, $17,945; Wm. J. Moran, Inc., Brooklyn, $21,382; Madison Bldg. Co., New York, $19,851; George Hildebrand, New York, $19,684; Guidone & Galardi Co., New York, $25,114; Kelly & Kelley, New York, $20,553.

Tuberculosis hospital, Gowanda State Hospital: The Durolithic Co., Buffalo, $12,862; Buffalo General Bldg. Co., Buffalo, $12,369; Noblett & Hartmann, Buffalo, $11,624; Standing Contracting Co., Buffalo, $11,977; Mosier & Summers, Buffalo, $11,312 (will not want cobtract for this unless awarded contract for store room); C. A. Hager, North Collins, $13,827.

Dormitory at Inwood, St. Lawrence State Hospital: John A. Wert, Ogdensburg, $21,902; Brown & Pooler, Ogdensburg, $19,986; Whalen & Burns, Ogdensburg, $18,939; C. D. Hodge & Co., Watertown, $21,172; Proctor Mfg. Co., Ogdensburg, $22,498; Peter Keeler Building Co., Albany, $21,882; Morris Kastrowitz, Albany, $23,977; Reid & Fitzgibbons, Ogdensburg, $21,228.

Tuberculosis building, Buffalo State Hospital: (a) entire work; (b) omit heating; (c) omit plumbing, (d) omit electric: Noblett & Hartmann, Buffalo, N. Y., (a) $7,727; (b) $600; (c) $750; (d) $142. Joseph J. Churchyard, Buffalo, N. Y., (a) $6,841; (b) $716; (c) $718; (d) $135. Buffalo General Bldg. Co., Buffalo, N. Y., (a) $7,179; (b) $750; (c) $929; (d) $142. Philip P. Rosenkranz, Buffalo, N. Y., (a) $7,890; (b) $800; (c) $700; (d) $125. C. H. Everitt, Buffalo, N. Y., (a) $7,215; (b) $753; (c) $756; (d) $109. The Durolithic Co., Buffalo, N. Y., (a) $8,344; (b) $600; (c) $700; (d) $130. Morris Kantrowitz, Albany, N. Y., (a) $11,900; (b) $500; (c) $900; (d) $350. Mosier & Summers, Buffalo, N. Y., (a) $9,351; (b) $954; (c) $841; (d) $202.

Cold storage building and store room, Gowanda State Hospital: Buffalo General Building Co., Buffalo, $19,335; Noblett & Hartmann, Buffalo, $18,953; Standing Contracting Co., Buffalo, $15,500; Mosier & Summers, Buffalo, $18,850; The Durolithic Co., Buffalo, $24,953.

Alterations to plumbing, Kings Park State Hospital: Edward Pidgeon, Northport, $6,875; W. B. Armstrong, Albany, $5,900; Ross-Bush Co., New York, $6,764; Edward Joy, Syracuse, $5,585; Commercial Construction Co., New York, $5,523.

NEW YORK, N. Y.—Plans have been filed for a 6-story office and store building, with apartments for 21 families, to be erected near the Williamsburg Bridge Plaza, at Delancey and Essex Sts., for Meyer Vessell, from drawings by Samuel Sass, Arch., Park Row Bldg., at a cost of $40,000.

Plans for a 10-story apartment house on a plot at Amsterdam Ave. and 110th St., to be built from designs by Neville & Bagge, Archs., 217 West 125th St., for the Yorktown Realty Co., have been filed with the Buildings Department. It is to be of Renaissance design, of brick, finished with limestone and terra cotta, having a frontage of 95.11 ft. and a depth of 115 ft., and is to cost $480,000.

*NEW YORK, N. Y.—Bids are asked until 3 p. m., April 3, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of foundation to the extension and remodeling of the U. S. Assay Office Building, New York.

Plans have been filed for a 6-story apartment house, containing 90 suites, to be built at a cost of $150,000 at the corner of Cathedral Parkway and Columbus Ave., and a 6-story apartment, with 80 suites, at Columbus Ave. and 100th St., to cost $120,000. Both buildings are for the Cathedral Realty Co., 70 West 109th St., Leon Sobel, Pres., and are from designs by Sommerfeld & Steckler, Archs., 19 Union Sq.

Goldwin, Starrett & Van Vleck, Archs., Everett Bldg., have filed plans for a 12-story and basement business building to be erected for Captain W. H. Wheeler, 96 West 61st St., on the plot at 28 and 30 West 38th St. It is to be 50 ft. front and 94 ft. deep, with a facade of brick trimmed with granite, limestone and terra cotta, and having tall mezzanine bays. It is to cost $140,000.

Plans have been filed for a 6-story flat-house, containing accommodations for 28 families, to be built in 178th St., west of St. Nicholas Ave., at a cost of $80,000, for the Alcazar Realty Co., 550 East 80th St., Antinoy Schwoerer, Pres. George F. Pelham, 503 Fifth Ave., is Arch.

NEW YORK, N. Y.—Next to its new buildings in the Grant's Tomb section the Union Theological Seminary will erect and operate an apartment house. It will not be of the dormitory type, but a housekeeping structure similar to the 12-story Lowell and Emerson structures. Allen & Collens, Archs., 1140 Broadway, are finishing plans for the seminary house. It will cover a plot 40.2 x 144 ft. on the corner at Claremont Ave. and 122d St. The cost is estimated at $200,000. The main buildings of the seminary will cover the double block from 120th to 122d Sts., Broadway to Claremont Ave.

Plans have been filed for a 6-story apartment house, to be built at the corner of Broadway and 180th St., with 40 suites of apartments, for the Barnard Realty Co., 4941 Broadway. A. B. Knight is Pres., and Arch. Cost, $225,000; and for a 6-story brick apartment house, containing 45 suites of apartments, on 178th St., west of Broadway, for George and Augustus Schuck, 19 St. Nicholas Pl., at a cost of $100,000. G. F. Pelham, 503 Fifth Ave., Arch.

George Raymond Euell, Arch., has filed plans for two 6-story elevator apartments, to be built at a cost of $75,000 each, for the McGuire Construction Co., 100 West 139th St., on Amsterdam Ave., north of 178th St., and on 178th St. west of Amsterdam Ave.; for a 6-story apartment house, with 28 suites, for the Irving Judis building & Construction Co., 215 West 125th St., at Amsterdam Ave. and 160th St., to cost $110,000, and for a 5-story flathouse for ten families, to be built for George Coburn, 148th St. and Broadway, on 179th St., west of Broadway, at a cost of $50,000.

NEW YORK, N. Y.—Bids are asked until 3 p. m., March 15, by C. B. J. Snyder, Supt. of School Bldgs., Dept. of Education, Park Ave. and 59th St., for forming storeroom for electric material at Public School No. 62, at Hester and Essex Sts., Boro. of Manhattan; for the erection of outside iron stairs and balconies at Public School No. 165, at 509 East 120th St., Boro. of Manhattan.

NEW YORK, N. Y.—Plans for a 7-story tenement house have been filed at the Buildings Department by Janes & Leo, Archs., 124 West 45th St. The building is to be built on the premises 210 to 214 Thompson St. It will be of brick, with stone trimmings, containing 3 and 4-room suites, ten to each floor, with the exception of the first story, which will contain six suites, with ground floor stores. There will be stores in the cellar, also. The building will be 70 ft. high, and will have a frontage of 75 ft. It is to be erected for Annie M. Pissarra and Victoria V. Cacaganare, 147 West Fourth St., and will cost $70,000.

Plans have been filed for a 10-story and basement apartment house to be built for the West Side Construction Co., 321 West 92d St., at the corner of Riverside Drive and 99th St. It is to be of the Italian Renaissance design, from drawings by G. F. Pelham, Arch., 503 Fifth Ave., with facades of brick with limestone trimmings, the Drive frontage being 106.10 ft. and that in the street 116 ft. It will contain 34 suites of apartments and is to cost $300,000.

Plans have also been filed for a 12-story commercial building, to be erected for the Marmac Construction Co., 316 West 30th St., at 102 to 106 West 27th St. It will have a frontage of 60 ft. and a depth of 90 ft., the facade being finished in brick, terra cotta and copper trimmings. It is to cost $225,000, according to the estimate of Frederick C. Browne, Arch., 143 West 125th St.

A 10-story combined office and theater building, to be known as the Apollo, is to be constructed by the THOMPSON-STARRETT CO., 49 Wall St., on the corner of 47th St. and Seventh Ave., for Weber & Rush. The site extends 140 ft. on 47th St. and 100 ft. on Seventh Ave., and eight 4-story brownstone front residences will be torn down to make way for the structure. The theater will have a seating capacity of 1,400, with proscenium arch 34 x 31 ft. and stage 29 ft. deep. The office building will be ten stories high, fronting on the two streets and with a light court extending over the entire roof of the theater. The building is to be of light brick, with Indiana limestone trimmings and terra cotta ornaments. All the theater entrances are to be of marbie, with wrought iron marquise over the main entrance. William H. McElfatrick, 1402 Broadway, is Arch.

SYRACUSE, N. Y.—Bids are asked until 2 p. m., March 10, at the Chamber of Commerce, Syracuse, for erecting an 11-story hotel, 132 x 156 ft., fireproof, of brick and terra-cotta construction, for the Onondaga Hotel Corporation, Syracuse. Esenwein & Johnson, 781 Ellicott Sq., Buffalo, N. Y., are Archs.

LAKEWOOD, N. J.—Dr. A. Trego Shertzer, George E. E. Timanus and William A. Blossom, Baltimore, Md., obtained letters of incorporation on Feb. 5 at Lakewood for the construction of a large sanitarium at Lakewood Terrace, to cost $125,000. The building will be of brick or stone, four stories high, and surrounded by more than five acres of ground. The tract is located 1¼ miles from Lakewood and nine miles from the ocean. Dr. A. Trego Shertzer is Pres.

WILKES-BARRE, PA.—Bids will be received by the School Board until March 22 for the construction of the high school build-

ing, to cost about $300,00. Owen McGlynn, Simon Long Bldg., is Arch.; Runyan & Carey, 122 Market St., Newark, N. J., are Engrs.

NORRISTOWN, PA.—Bids are asked until 4 p. m., March 10, by the Building Committee of the Board of Trustees of the State Hospital for the Insane, at Norristown, for the following material and items: Plumbing and heating material, brick, bricklaying, plastering, iron beams, cement, vitreous tile, electric light supplies, millwork and lumber, etc., to make changes in lavatories, bathrooms, etc. John L. West is Steward.

PHILADELPHIA, PA.—Estimates have been asked by Ballinger & Perrot, Archs., 1200 Chestnut St., on plans for an apartment house in the French Renaissance style to be built at Wayne and Chelten Avs., Germantown, for J. W. Ross. The building, which will be known as the Whitehall apartment house, will have a front on Chelten Ave. of 83 ft. with a depth of 124 ft. on Wayne Ave. The main entrance will be on Chelten Ave. The building will have six stories and a basement, will be fireproof throughout, of brick with terra cotta trimmings and with numerous ornamental iron balconies. The roof will be of slate. The Whitehall will have a total of 75 bedrooms, with adjoining baths, parlors and reception rooms. The banquet hall and dining rooms will be located on the sixth floor. The second, third, fourth and fifth floors will be divided into bed chambers and reception rooms. A reception room, exchange, guests' room and smoking room, with a large entrance hall, will occupy the whole of the first floor. The basement floor will be divided into a billiard room, supply and store rooms and a laundry.

*ARDMORE, PA.—Lower Merion Township proposes building a High School at Ardmore, Pa., to cost about $150,000. Information can be obtained from H. J. Wightman, Supt., Ardmore, Pa.

MONONGAHELA, PA.—The following bids have been received for construction of the proposed Third Ward school: General contract—Lee Construction Co., Pittsburg, $47,795; Ramella & Ramella, Waynesburg, Pa., $42,959; Donora Lumber Co., Donora, Pa., $51,300; W. A. Hazlett, Connellsville, Pa., $43,820; John K. Unkefer, Minerva, Ohio, $48,750; Charleroi Lumber Co., Charleroi, Pa., $47,970; Brieck Bros., McKeesport, Pa., $46,750; Pittsburg Construction Co., Pittsburg, Pa., $46,000, and the Homestead Lumber Co., Homestead, Pa., $45,751.

Heating and ventilating systems—Peck-Hammond Co., Cincinnati, Ohio, $5,230 with hand control and $5,950 with automatic control; American Warming & Ventilating Co., Pittsburg, $6,906 for their own system and $7,796 for automatic control; Columbus Heating & Regulating Co., Columbus, Ohio, $7,050 for hand control and $7,850 for automatic control.

Plumbing—Regan & Hormell, Charlerol, Pa., $3,447; W. H. Seibert, Donora, Pa., $5,144.07; Myers & Raible, Monongahela, Pa., $3,579.

Electric wiring—E. W. Hartland, Monongahela, Pa., $800, and Dunshee Electric Co., McKeesport, Pa., $593. None of the above contracts has been awarded.

PITTSBURG, PA.—Alden & Harlow, Archs., Farmers' Bank Bldg., are preparing plans for a 4-story brick building for the Newsboys' Home, to be erected at Stevenson and Locust Sts., to cost $50,000.

PITTSBURG, PA.—Charles Bickel, 524 Penn Ave., has prepared plans and is ready for bids for an 8-story business building to be built this year at Ohio and Sandusky Sts., North Side, for B. White. It will be of structural steel, enameled terra cotta, brick and terra cotta, fireproof, and will have seven elevators, private steam and electric power plant, steam heating, plumbing and electric wiring systems. It will be 60 × 120 ft., with an L 86 ft. deep.

PHOENIXVILLE, PA.—We are officially advised that J. V. Poley, Arch., 162 Second Ave., Royersford, Pa., is preparing plans and will receive bids for a 2-story fire engine house, 36 × 60 ft., for the West End Fire Co., No. 3. The building will be constructed of brick and stone and will have composition roof and steam heat.

BALTIMORE, MD.—Jacob F. Gerwig, Arch., 11 East Lexington St., has completed plans and specifications for ten dwellings to be erected on the east side of Lakewood Ave., near Whitelock St., for the New Era Realty & Construction Co. The cost will be about $45,000. Each of the house, which will be three stories high and of brick with ornamental stone trimmings, will have a frontage of 16 ft. and a depth of about 100 ft. They will be equipped with electric wiring and steam heat. The work will begin at once.

*BALTIMORE, MD.—Bids are asked until noon, March 25, by the Light-House Engineers, Baltimore, for furnishing the materials and labor of all kinds necessary for the erection and delivery of a keeper's dwelling at Bodie Island Light-Station, N. C.

LOCK RAVEN, MD.—Bids were received on Feb. 18, by Wyatt & Nolting, Archs., Keyser Bldg., Baltimore, for erection of an administration building and two or three cottages on the site of the school near Loch Raven, Baltimore County. The administration building will be in the center and will be T-shaped. It will be of Colonial design, with massive marble columns and wide hallway. The first floor will contain the large auditorium, with an elevated stage for social functions. The auditorium room will measure 38 × 43 ft. On this floor will be the library, reading room, board and committee rooms, besides the dispensary. The second floor will have the dining room, kitchen, bedrooms and dormitory. The entire building will be constructed of reinforced concrete and concrete foundation. The roofing will be of tile and copper and the mantles of brick. With a frontage of 126 ft. 4 ins. the proposed structure will have a depth of 104 ft. 8 ins. The cottages will be erected along the lines of the main building. They will be built of reinforced concrete and will contain, besides the dining rooms, gymnasiums, shower baths and lockers. Each of the proposed cottages will measure 48 × 68 ft. The cottages will be designated as "C," "D" and "E," and will be 2½ stories high. For the three cottages and administration building the contract price was $109,000. The buildings will be erected by JOHN COWAN, 106 West Madison St., Baltimore. The contract for the road, which aggregated $16,470, has been awarded to ARTHUR L. SHREEVE & CO. A contract for the extension of water system has been awarded to ROTHROCK & CO., for $1,100.

WASHINGTON, D. C.—Bids are asked until noon, March 13, by Elliott Woods, Supt. U. S. Capitol Building and Grounds, for cut stone work (limestone) for the superstructure of the addition to the U. S. Court House, Washington, D. C.

Work will be started on an addition to the Wyoming apartment house. It is estimated that the cost of the addition will be about $100,000. B. Stanley Simmons, Arch., 523 Ninth St., N. W., is preparing plans for the work, and these probably will be ready to submit to contractors for building estimates at once. The addition will be built in the rear of the main portion of the building. It will be about 100 ft. in width, and will have a depth of about 60 ft. The structure will be seven stories in height. The present structure contains 49 apartments, and according to the plans for the addition, this portion will contain 29 apartments, ranging from two to ten rooms each. The structure will contain an additional elevator. The building is owned by L. A. Barr.

*FORT MONROE, VA.—Bids are asked until noon, March 22, by Major Joseph E. Kuhn, Constr. Q. M., for construction, plumbing, heating, electrical wiring and fixtures, for Engineer Office building, and one set of quarters at Fort Monroe, Va.

NORFOLK, VA.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until 10 a. m., March 16, for constructing two additional wards at the Naval Hospital, Norfolk.

ROANOKE, VA.—Bids were received as follows on Feb. 23 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of an extension to the post-office building at Roanoke, Va.: W. P. Lipscomb & Co., Washington, $86,917; George Leigh & Bro., Louisa, Va., $76,392; David Peoples, Philadelphia, $84,823; King Lumber Co., Charlottesville, Va., $73,840; Ambrose B. Stannard, St. James Bldg., New York, $84,700; M. P. Wells, Philadelphia, $77,469; D. J. Phipps, Newport News, Va., $71,474; Jones & Adams, Lynchburg, Va., $66,900. Time, March 1, 1910.

JACKSONVILLE, FLA.—The Seaboard Air Line Ry. Co., W. L. Seddon, Ch. Engr., Portsmouth, Va., has awarded contract to W. T. HADLOW CO., of Jacksonville, for erection of warehouse in which to store phosphate rock, salt, etc., according to the "Manufacturers' Record." The structure is to be 300 × 84 ft., sides covered with galvanized iron, pile foundation, roof to be 4-ply gravel. There will be gas lighting. An overhead tramway will be constructed in interior of building for handling heavy freight. This tramway will be regular trackage of small steel rails and motive power probably will be either cable or electricity. Trestle work will be constructed on each side of warehouse, upon which tracks are to be laid to afford transportation facilities. Covered platforms, to extend entire length of warehouse, will be erected in connection with the trackage. Estimated cost, $40,000. Receivers of the company have offices at 401 Continental Trust Bldg., Baltimore, Md.

GAINESVILLE, FLA.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to the KING LUMBER CO., Charlottesville, Va., contract for the construction of a post-office at Gainesville, Fla., at $128,400. Time, June 15, 1910.

GADSDEN, ALA.—Bids were received as follows on March 1, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post-office building at Gadsden, Ala.: (The second figure is additional sum for marble in lieu of brick.) King Lumber Co., Charlottesville, Va., $68,770, $15,000; Algernon Blair, Atlanta, Ga., $68,300, $15,300; Robert E. Pharrow, Atlanta, Ga., $69,865, $15,125; Miles & Bradt, Atlanta, Ga., $69,948, $11,800; Alfred Struck Co., Louisville, Ky., $73,820, $16,750. Time, March 1, 1910.

DOTHAN, ALA.—Bids are asked until 3 p. m., April 5, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Dothan.

BURRWOOD, LA.—Bids are asked until 11 a. m., March 24, by Lieut.-Col. Lansing H. Beach, Corps Engrs., U. S. A., for furnishing plant, labor and materials and constructing buildings at Burrwood, Southwest Pass, Mississippi River, La.

RUSTON, LA.—Bids are asked until 3 p. m., March 31, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, complete, of the U. S. post-office at Ruston.

LAKE CHARLES, LA.—James Knox Taylor,, Superv. Arch., Treasury Dept., Washington, D. C., has awarded to the KING LUMBER CO., Charlottesville, Va., contract for the construction of a post-office building at Lake Charles, La., at $108,975. Time, Aug. 5, 1910.

RICHMOND, KY.—Bids were received as follows on Feb. 23 at the office of James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of an elevator plant in the post-office building at Richmond, Ky.: Otis Elevator Co., 17 Battery Pl., New York, $9,884; Llanwellin Iron Works, Los Angeles, Cal., $10,000; Marine Engine & Machine Co., New York, $13,785.

COLUMBUS, OHIO.—On Feb. 24 Richards, McCarty & Bulford, Archs., Ruggery Bldg., let the contract for the building which the Dispatch Building Co. will erect at the corner of Gay and High Sts., to WILLIAM WATSON, the Pres. of the Columbus Builders' Exchange. The building will be five stories above ground with a basement and sub-basement and will be for the use of the Columbus Evening Dispatch. Work on the building will begin at once. The building will be fireproof.

MARION, OHIO.—Bids are asked until 3 p. m., April 7, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Marion.

INDIANAPOLIS, IND.—The Wulschner-Stewart Music Co., 128 North Pennsylvania Ave., has ordered plans for the construction of a business block on North Pennsylvania St.

Dr. J. M. Kitchen, Hume Bldg., has plans on which he invites bids for the erection of a 3-story brick and steel office building on corner of Pennsylvania and New York Sts. The lower floor will be made into business rooms.

The Apartment Building Co., A. Q. Jones, Pres., has ordered plans for the construction of an apartment house on corner of New Jersey St. and the Boulevard. Estimated cost, $50,000. Bids will be in order soon.

Plans have been completed by O. D. Bohlen & Son, Archs., Majestic Bldg., for the construction of the proposed St. Vincent Hospital on Illinois St. and Fall Creek. Bids will be invited by Sister Mary Joseph in a few weeks.

PEORIA, ILL.—We are officially advised that bids were received on Feb. 15 by Herbert E. Hewitt, 321 Main St., Arch., for a 1-story Shriners' Temple, 96.6 × 167.6 ft., on Monroe St. It will be of press brick with terra cotta trimmings and will cost $100,000. The contract, including plumbing and heating, has been let to WILLIAM M. ALLEN, SON & CO., of Peoria, at $76,480.

JEFFERSON, WIS.—Bids are asked by O. F. Roessler, Secy. Bldg. Com., at office of the Banner Printing Co., until 2.30 p. m., March 22, for the construction of a dormitory building for the Jefferson County Insane Asylum, near Jefferson. Alvan E. Small, Madison, Wis., is Arch.

NEWTON, IOWA.—The Board of Supervisors of Jasper County has let contract to JAMES RAWSON & CO., Iowa City, Iowa, at $132,315, for the erection and completion of a 3-story court-house. Frank Sellman is County Audr. Proudfoot & Bird, Crocker Bldg., Des Moines, are Archs.

ST. PAUL, MINN.—Mark Fitzpatrick, Arch., 17 West Ninth St., St. Paul, has been engaged to prepare plans for two 3-story concrete buildings, to be erected at Seventh and Cedar Sts., for the Boston Northwest Realty Co. Cost, $125,000.

ST. LOUIS, MO.—J. I. Epstein, 611 Chestnut St., has organized a syndicate to expend about $200,000 in constructing 15 dwellings. They will be located in the 4400 block of McPherson Ave., in what is known as Fullerton No. 2 Westminster Addition. The announcement has been made by Mr. Epstein that construction on five of the houses would begin immediately. Plans and specifications have been prepared by A. Blair Riddington, Arch., 620 Chestnut St., and the contracts will be let within the next few days. Construction work will be prosecuted as fast as possible, so that they can be put on the market this summer. Before the five structures are completed contracts will be let for another batch of five and so on until the 15 or 20 have been erected. The cost of the first five will be $50,000. These dwellings will contain ten and twelve rooms each with baths. Individual characteristics in the architecture will be observed throughout the dwellings, and each one will be of different style. The five will be erected on the north side of McPherson Ave., east of Taylor Ave. The syndicate owns 720 ft. in the 4400 block and 50 ft. in 4300 block.

A permit for the new St. Petri Evangelical Church has been issued, and according to the specifications the building will be faced on three sides with stone and will cost about $75,000. It is to be located at the corner of St. Louis and Warne Aves., with a frontage of 70 ft. on Warne St. Three main entrances with granite steps are planned, the one on St. Louis Ave. to be a stone porch. On the southeast corner will be a tower 95 ft. high and on the opposite front corner a tower 70 ft. high. The seating capacity of the auditorium will be about 950, with room in the organ loft for a choir of forty persons. In the basement there will be an assembly room with seats for 800. The contract has been let to HERMAN SCHULTE, and the plans for the church were made by Charles F. May, Mechants' Laclede Bldg. Rev. F. Hackmann is pastor of the Church, and Louis B. E. Peters is Chn. Bldg. Com.

St. Mark's Roman Catholic parish will build a $100,000 school at Academy and Minerva Aves. The structure will be fireproof and will contain 14 schoolrooms, a children's chapel, gymnasium, with natatorium and handball court, a sodality hall and an entertainment hall with a seating capacity of more than 1,000. It will be fully equipped with stage and scenery. Plans and specifications have been prepared by Baxer & Knell, Olive and Ninth Sts. The Building Committee in charge of the construction is composed of James P. Downes, T. Connor, William Murphy, M. E. Smith and C. Muckerman. The pastor of the parish expects to have the building ready for occupancy by September.

SAN ANTONIO, TEX.—James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office building at San Antonio, Tex., to TOM LOVELL & SONS, Denton, Tex., at $138,217. Time, May 1, 1910.

SACRAMENTO, CAL.—Bids for the new city hall were received by the Board of Trustees on Feb. 15. Two bids were put in by each contractor—one for building the structure with pressed brick, terra cotta and granite and the second for [illegible] granite facing over the entire structure. [illegible] lowest bid for pressed brick terra [illegible] was that of the Thomp[illegible] and granite Royal Insurance Bldg., S[illegible] ngure was $173,900. The [illegible] granite was that of P. J[illegible] Francisco. His figure was [illegible] bids were all referred to th[illegible] mittee of the Board of Tr[illegible] were as follows: (a) for p[illegible] for granite facing: Thomp[illegible] (a) $173,900, (b) $259,900 [illegible] (a) $174,700, (b) $266,000; [illegible] $177,840, (b) $245,552; Rike[illegible] $177,900, (b) $265,900; Ra[illegible] tion Co., (a) $179,947, (b) S[illegible] livray Construction Co., (a) [illegible] $275,000; Adolph Tiechert, (a[illegible] no bid; Kopp Bros., (a) $1[illegible] bid; Clark & Henery, (a) [illegible] $282,800; Healy, Tibbits Co. [illegible] (b) $290,000; Siller Bros., [illegible] (b) $315,369; Cotton Bros. [illegible] 000; (b) $298,000.

SAN FRANCISCO, CAL.—A[illegible] the Board of Public Works, [illegible] bids were received for the [illegible] the Madison School building, o[illegible] tween First Ave. and Cherry [illegible] cessful bidders were: For gen[illegible] tion, BROWN & SMART, $49,[illegible] and gas fitting, ALEXANDER [illegible] $4,171; plastering, FRANK CO[illegible] 875. The bids for heating and [illegible] were opened, but no award w[illegible] until the proposals can be anal[illegible] ton J. Thorp, City Arch.

PATTON, CAL.—The Board of [illegible] the Southern California State Ho[illegible] Reds, Cal., has rejected all bids, [illegible] above appropriation, for the [illegible] a receiving building at the hospital [illegible] Lyman M. King is Secy.

LOS ANGELES, CAL.—Bids are [illegible] til 2 p. m., March 22, by the Board of Supervisors of Los Angeles County for labor and material necessary for the [illegible] of boilers and steam heating sys[illegible] the proposed Hall of Records, to be located immediately south of the County Court-house grounds in the city of Los Angeles. Hudson & Munsell, Stimson Bldg., are Archs.; C. G. Keyes is County Clerk.

LOS ANGELES, CAL.—From a total of 20 bids submitted on Feb. 23 the Supervisors have awarded contracts for the construction of the County Hall of Records, to be built on the site recently condemned and adjoining the county courthouse on the south. The contracts awarded total $849,587, and are as follows: C. LEONARDT, H. W. Hellman Bldg., foundation, excavation and general building, $603,000; LLEWELLYN IRON WORKS, North Main and Redondo Sts., structural steel, $175,000; Blumve & Jay, 514 East Ninth St., plumbing, drainage and sewer, $20,987; LLEWELLYN IRON WORKS, elevators, $34,750; Woodill & Hulse Electrical Co., 276 South Main St., electrical and telephone, $15,850. Contracts yet to be let (estimated), $50,000. The building, as provided for in the plans, will be 200 × 96 ft., ten stories high, and will contain space for 200 rooms. It will be fireproof, with metal fixtures, cement floors, concrete base, steel frame and terra cotta brick exterior.

REDONDO, CAL.—The contract for the erection of a bath house at Redondo Beach by the Los Angeles & Redondo Ry. Co. has been let to the ALTA PLANING MILL CO., Eighth and Alameda Sts. The structure will cost about $150,000. The contract was let through Edward C. Kent, Arch., who prepared the plans.

TORONTO, ONT.—The Building Committee of the Western Hospital has instructed E. J. Lennox, Arch., 164 Bay St., Toronto, to prepare plans and call for bids for the first section of the hospital to be erected on Bathurst St. The building will be three stories high. The first section will cost about $150,000, and will be followed by three or probably four other sections, each costing the same amount.

WINNIPEG, MAN.—The McLaughlin Carriage Co., of this city, will erect a garage here this spring. Plans for the building are being prepared by J. D. Atchison, Arch., Winnipeg, Man.

MELVILLE, SASK.—Plans and specifications have been completed for freight sheds to be erected here which will be 100 ft. long as well as for yards to contain 25 miles of track.

EDMONTON, ALTA.—Bids are asked by John Stocks, Deputy Minister of Public Works, until noon, March 20, for the supply of 1,000,000 clay bricks for the proposed government buildings.

MEXICO CITY, MEXICO.—At the meeting of the Y. M. C. A. Building Committee it was decided to accept the proposals of WILLIAM P. CARMICHAEL & CO., Fullerton Bldg., St. Louis, Mo., for the construction of the new association office.

TOLUCA, MEXICO.—Bids are asked until March 15 for the construction of the proposed market which the city authorities will erect on Avenida Juarez, near the cotton mill. The market is to cost $180,000. The construction will be under the direction of Manuel Arratia, Engr., whose fee from the city will be $8,000. The building is to be finished in 18 months, and will be constructed of masonry and iron.

WATER SUPPLY—IRRIGATION.

BOSTON, MASS.—Bids will be received by the Charles River Basin Commission, 367 Boylston St., Boston, until 2.30 p. m. March 15, for the construction of the Fens gate-house, to be built upon a foundation already constructed near Charlesgate East and Back Sts. Plans, etc., are at the office of Hiram E. Miller, Ch. Engr., 367 Boylston St. Henry D. Yerxa is Chn.

PAWTUCKET, R. I.—The Committee on Water has awarded contract for water pipe for the coming year to ALLEN & REED, of Providence, at $23.06 per ton and $48 per ton for specials. Total cost, about $12,000.

FORT GETTY, R. I.—The following bids were opened on Feb. 23 at the office of Capt. Willis C. Metcalf, Quartermaster, U. S. A., Newport, for construction of (a) water supply system and (b) sewer at Ft. Getty. P. J. Murphy & Co., 165 Spring St., Newport, (a) $509, 70 days; (b) $509, 70 days; Darling & Slade, 56 North Main St., Fall River, Mass., (a) $5,45[illegible] (b) $330, 4 months; Joseph P. Cotton, 20[illegible] Thames St., Newport, (a) $5,956, (b) $322[illegible] June 30, 1909; Thomas B. Connolly, 33[illegible] Thames St., Newport, (a) $5,950, (b) $267[illegible] three months; Michael A. McCormick, 4[illegible] Sherman St., Newport, (a) $7,376, (b) $390[illegible] days; John F. Johnston Co., 371 Central S[illegible] Fall River, Mass., (a) $6,445, (b) $225[illegible] three months.

NORTH [illegible]ARLINGTON, (Arlington post-office), N. J.—The Council on Feb. 17 awarded to EDWARD SARGENT, of Kearney, N. J., the contract for furnishing and laying about 17,340 lin. ft. of 6-in., 6,960 lin. ft. of 8-in. and 280 lin. ft. of 4-in. c.-i. bell and spigot pipe, hydrants, valves, etc., at $20,886. Six bids opened Feb. 3. The Council reconsidered its former action with regard to rejecting these bids and decided not to receive any new bids for the work on March 3, as noted on Feb. 18. Work will be started in a few weeks. Wise & Watson, of Rutherford, are Engrs.

MIDLAND PARK, N. J.—The Bergen Water Company of New Jersey has awarded contract for laying 8 miles of water pipe to L. J. RICHARDSON, Owego, N. Y.

RIDGEWAY, PA.—The citizens on Feb. 11 voted to issue $8,500 of bonds for improving and extending the water system. F. W. Ward, of Ridgeway, is Engr.

ALTOONA, PA.—The citizens on Feb. 16 voted to issue $300,000 of bonds to complete the water system here.

SCHAEFFERSTOWN, PA.—We are officially advised that the water supply system here is to be enlarged. George W. Hayes of Lebanon is Engr.

STONE HARBOR, PA.—Preliminary plans are being prepared by H. L. Reinbold, Jr., for a pumping station, to be built at Stone Harbor for the South Jersey Realty Co. It will be of concrete construction, one story high, 20 × 32 ft.

TOWSON, MD.—The Baltimore County Water & Electric Co. will construct reservoir at site of standpipe here.

BALTIMORE, MD.—The Colonial Park Estates Co., L. G. Turner, 208 Union Trust Bldg., Secy., is completing arrangements for the construction of the proposed system of water-works.

FOLLANSBEE, W. VA.—The Citizens' Water & Light Co., of Follansbee, has been incorporated with a capital stock of $50,000. Charles Crawford, Citizens' National Bank, Follansbee, is Pres.

WAYNESVILLE, N. C.—The city will extend and improve the water system, for which $25,000 of bonds have been issued. J. L. Ludlow, Winston-Salem, N. C., is Engr.

MURPHY, N. C.—The city contemplates issuing $20,000 to $40,000 of bonds for the construction of water-works.

MARION, N. C.—The East Marion Realty Co. will have plans for water-works at East Marion prepared by Cothran & Cothran, Masonic Temple, Greenwood, S. C.

LUMBERTON, N. C.—The city will construct a 100,000-gallon reservoir, to be used in connection with tank which contains 66,000 gallons. The reservoir will be supplied with water from ten wells by 2½-in. pipe, to have steady flow of 8,000 gallons per hr. From the reservoir the water will be pumped into the tank and mains.

SALISBURY, N. C.—The city contemplates improving the water-works system. Estimated cost, $40,000.

FORT DADE, FLA.—Bids are asked until 8 p. m., March 18, by the Constructing Q. M., U. S. A., Fort Dade, for constructing two cypress tanks at the post.

LEESBURG, FLA.—The city is considering the construction of water-works.

MONTGOMERY, ALA.—Bids will be received until March 15 by Robert Tait, City Treas., for two 200-HP. water-tube return tubular boilers or Scotch marine, working pressure 160 lbs. at the pumping station.

CORINTH, MISS.—The city has voted $8,000 of bonds for water-works improvement. The water-works machinery will be overhauled, reservoir erected and pressure pump purchased and installed; J. P. Collier is Mayor.

TALLULAH, LA.—The city is considering the construction of water-works, so built as to provide for the addition of an electric-light plant. Artesian wells will probably be the source of supply. Estimated cost, about $12,000. G. H. Ogbourne is Mayor.

YOUNGSTOWN, OHIO.—Bids will be received until March 5 by the Board of Public Service, W. H. McMillin, Clk., for furnishing about 500 tons of c.-i. water pipe and 15 tons of special castings, 104 gate-valves, ten tons of soft pig lead, 60 fire hydrants, 1,200 extension curb boxes.

CINCINNATI, OHIO.—FRANK BURNS was awarded contract on Feb. 18, at $22,275, for furnishing the Water-Works Department with c.-i. pipe and special castings for the year. The bid is about $8,000 below the estimated cost of the pipe.

OAKLAND CITY, IND.—The Oakland City Water-Works Co. has increased its capital stock to $40,000. The company is planning to extend the mains and install new machinery.

HAZLETON, IND.—The National Co., of South Bend, is preparing plans and specifications for the construction of water-works here. Estimated cost, about $8,000.

*GRAND RAPIDS, MICH.—Bids will be received by the Board of Public Works until 8 p. m., March 11, for the construction, delivery and erection at the water-works pumping station, of one vertical triple-expansion pumping engine having a normal capacity of 12,000,000 U. S. gallons of water in 24 hrs. The machinery to be constructed in accordance with specifications on file at the office of the Board of Public Works. Copies of specifications will be mailed upon request. Samuel A. Freshney is Gen. Mgr. and Secy.

NEW ULM, MINN.—AUGUST PUHLMAN, of New Ulm, has been awarded the contract by the city for constructing a reinforced concrete reservoir at $12,339. Other bids received were as follows: Ealy G. Briggs, St. Paul, $13,970; Weilandt & Stegemann, New Ulm, $14,800; J. B. Nelson & Co., Mankato, $15,696; W. D. Lovell, Minneapolis, $16,463; John G. Gronau, New Ulm, $16,470; Haglin & Stahr, Minneapolis, $16,500; Geo. W. Grant Construction Co., St. Paul, $16,880; C. W. Noble Co., La Crosse, Wis., $16,880; Otto Neitge, Mankato, $16,995; Tappe & Reiser, New Ulm, $16,999; Pastoret Lawrence Co., Duluth, $17,393; F. Kente & Co., New Ulm, $17,952; Western Concrete Bridge Co., Chicago, Ill., $18,445; Cook Construction Co., Des Moines, Iowa, $19,940; Sterling Eng. & Construction Co., Milwaukee, Wis., $19,500; W. C. Carr & Son, Crawfordsville, Ind., $19,786; Tanner Bros., Minneapolis, $22,490. Bids were opened on Feb. 15. H. F. Blomquist is City Engr.

SEBETHA, KAN.—We are officially advised that plans and specifications have been completed for the construction of a water-works system here. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

FORT YELLOWSTONE, WYO.—Bids are asked by Lieut. G. O. Smith, Constructing Q. M., U. S. A., until 4 p. m., March 13, for furnishing three 28-HP. Francis type water-turbines with governors complete, 940 r.p.m., to work under an effective head of 280 ft.; three 150-KW. direct-connected, revolving-field, three-phase 2,200 or 2,300 volt, 60 cycle, 950 r. p. m. generators, and three 8-KW. exciters, with switchboard and all connections; approximately 2,200 ft. of 26-in. spiral quarter inch thick riveted steel penstock, including air chamber, the lighting equipment for an electrical power-house. These items should be bid for separately, but a lump sum for the whole apparatus will be considered. Time of completion of contract will be a consideration in making award.

MARCELINE, MO.—The city has engaged George W. Sturtevant, 1208 Fisher Bldg., Chicago, Ill., as consulting engineer for the construction of water-works here.

CALIFORNIA, MO.—We are officially advised that the town has voted $30,000 for the construction of a water plant. Edward C. Nischwitz is Mayor. Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., are Engrs.

HOLDENVILLE, OKLA.—The citizens on Feb. 17 voted to issue $45,000 of bonds for water-works improvements. C. E. Arnold is Mayor.

MONTROSE, COLO.—Location surveys are being made by Robert McF. Doble, Majestic Bldg., Denver, Colo., for a flume and canal for the purpose of supplying San Miguel River water to the mesa lands in the vicinity of Coventry, Shenandoah, East Paradox Valley, etc., Montrose County, Colo. Surveys will be completed in about two months.

COLORADO SPRINGS, COLO.—The Northfield Land & Water Co., which supplies water to Roswell, Papeton, Nob Hill, Printers' Home and other large consumers, has completed surveys and filed the plat with the State Engineer for the construction of a new storage reservoir with a capacity of 165,000,000 gallons. The new reservoir will be located in the upper West Monument valley, north of this city, and about half a mile west of the company's reservoir No. 1. It will require a dam 55 ft. in height to fill the reservoir. The company expects to begin work early this summer. When the new reservoir is completed, the company will have a total storage capacity of 300,000,000 gallons of water.

GREELEY, COLO.—R. K. Mulford, of Denver, Colo., will build the Mulford ditch and reservoirs Nos. 3 and 4 with a capacity of 1,000,000 cu. ft. of water, in Section 34, Township 2, Range 67.

SPOKANE, WASH.—The Superintendent of the Water Department has submitted to the Board of Public Works plans for an addition to the Up-River pumping station and for the installation of two additional pumps. Estimated cost, $30,000.

BELINGHAM, WASH.—The City Engineering Department will construct the new 18-in. water supply line from the cemetery to James St. Estimated cost, $7,599.

SEATTLE, WASH.—R. H. Thomson, City Engr., has reported the estimated cost of the following local improvement work: Eighth Ave. South and other streets, water mains, $88,200; 16th Ave. South and other streets, water mains, $12,500; 22d Ave. North and other streets, water mains, $3,900.

MORENO, CAL.—Contract has been let by the Moreno Irrigation Co. for a thoroughly modern irrigation system to irrigate the 400 acres of orchard owned by the members of the company in the Moreno Valley. The cost of the plant is approximately $49,000. The contract was awarded to FRANK KIMBALL, of Los Angeles, for the pumping plant, which includes a 250-HP. engine, triplex pump and air compressor. The latter apparatus weighs over 13 tons and is made by the Rand-Gould Co., Corning, N. Y. Seven miles of pipe line are to be laid on the company's lands and the contract for its installation was let to the LAPP-GIFFORD CO., of Los Angeles. The company has four wells in the Moreno Valley, two of which are especially promising. The plant will have a capacity of 200 ins., and if the wells already sunk will not yield this flow, additional wells will be sunk.

SAN FRANCISCO, CAL.—The Board of Public Works on Feb. 28 awarded contract to the HEALY-TIBBITTS CONSTRUCTION CO. for five cisterns, a part of the auxiliary fire system, at $21,425. The cisterns are to be located at Broadway and Scott Sts., Union and Laguna Sts., Vallejo and Webster Sts. and California and Buchanan Sts. Marsden Manson is City Engr.

PHOENIX, ARIZ.—We are officially advised that the city has awarded contract for a 3,000,000-gallon crank and fly-wheel, cross-compound Corliss pumping engine to the PRESCOTT STEAM PUMP CO., at $10,000. R. A. Craig is Supt. Water Dept.

BURLINGTON, ONT.—Bids are asked by the Village Clerk until 8 p. m., March 23, for the following sections of the proposed water-works system: Pipe-laying, pumphouse, water tower, c.-i. pipe, hydrant valves, electrically operated pumping machinery, pump well. Willis Chipman, 103 Bay St., Toronto, is Ch. Engr.

YELLOW GRASS, SASK.—The town will install a water-works system this year.

CLARESHOLM, ALTA.—The City Council has decided to ascertain the feasibility of a gravity water system to cost $60,000. Plans call for water to be brought twelve miles.

TORREON, MEXICO.—Gen. Angel Garcia Pena, Ch. Engr. Corps of Mexico, has been investigating the water supply of the great Laguna cotton district, with the view of irrigating a large acreage. As a result, it has been decided to turn the entire flow of the River San Juan del Rio into Lake Santiaguillo, the source of supply for the Rio Nazes, the principal irrigating stream of the Laguna district, to dam the lake and hold the water in reserve. This would insure a permanent supply of water and damage from drought would no longer be a danger.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

BUFFALO, N. Y.—The following bids were opened on Feb. 18 by the Department of Public Works for sewers in Angle, Taylor and Flaiver Sts.: B. F. Spire, $14,769; W. G. Smith, $13,900; William Franklin, $13,800; Dark & Co., $14,359; William Rappick and W. C. Colliton, $19,150; Fred J. Mumm, $15,998; H. P. Burgard, $16,800; G. C. Waite, $12,498, and John Miller, $18,327. F. G. Ward is Comr.

BROOKLYN, N. Y.—Bids are asked until 11 a. m., March 10, by Bird S. Coler, Boro. Pres., for furnishing and delivering brick, cement, vitrified pipe, lime and lumber for use by the Bureau of Sewers.

NEW YORK, N. Y.—Bids are asked until 2 p. m., March 10, by John F. Ahearn, Pres. Boro. of Manhattan, for furnishing all the labor and material required for sewer and appurtenances in West 177th St., from Fort Washington Ave. to Riverside Drive.

*KINGS PARK (L. I.), N. Y.—The bids received by the State Lunacy Commission, Albany, on Feb. 24, for the construction of sewerage and sewage disposal works at the Kings Park State Hospital, were as follows: Guinan & Emmons, Brooklyn, N. Y., $51,400, $48,500 and $41,350; Long Island Contracting Co., Astoria, N. Y., $62,300, $56,500 and $53,000; M. Kantrowitz, Albany, $65,900, $56,700 and $60,045; Charles Meade & Co., New York, $51,400, $48,500 and $45,900; Merrill-Ruckgaber Co., New York, $41,630, $33,700 and $35,200; Geo. H. Gifford, New York, $50,000, $44,000 and $43,500; Paladino Construction Co., Brooklyn, $43,000, $40,100 and $35,950; North-Eastern Construction Co., New York, $37,961, $36,050 and $33,534; Ross-Bush Co., New York, $34,900, $30,929 and $31,929; Hicks Johnson Construction Co., New York, $44,055, $41,882 and $38,955; James Kelly, Brooklyn, $47,825, $44,210 and $42,235; Frank J. Gallagher, Brooklyn, $62,287, $55,990 and $54,237; Murphy Bros., Brooklyn, $39,998, $37,997 and $33,998; McHarg, Barton Co., New York, $43,700, $35,700 and $29,700; James J. Fusco, Newark, N. J., $27,500, $21,300 and $20,500; Enterprise Contracting & Supply Co., New York, $60,700, $54,400 and $55,200.

*ROCHESTER, N. Y.—The bids received by the State Lunacy Commission, Albany, on Feb. 24, for the construction of sewer and ejector at the Rochester State Hospital, Rochester, N. Y., were as follows: R. T. Ford Co., Rochester, $4,900; Charles T. Hookway, Syracuse, $4,840; Thomas Holahan, Rochester, $4,807; Houston Barnard, Rochester, $5,334; Whitmore, Rauber & Vicinus, Rochester, $4,267; Holler & Shepard, Rochester, $5,865. F. B. Ware is State Arch., Albany.

AUBURN, N. Y.—W. Thomas Wooley, City Engr., is completing plans for a system of sewers and septic tank for purification for the First, Sixth and Tenth Wards. Bids will be asked in the spring by the Board of Contract and Supply.

*ASBURY PARK, N. J.—We are officially advised that the following bids for a sewage pumping station and disposal plant for the city were received on March 1 by the Mayor and Council: United Paving Co., $27,273, 60 days; McHarg-Barton Co., $28,300, 75 days; Northeastern Construction Co., $32,092, 120 days; B. G. Coon Construction Co., $32,575, 120 days; Merrill-Ruckgaber Co., $34,200, 70 days; F. J. Boas, $34,500, 125 days; W. W. Lindsay & Co., $36,700, 140 days; B. F. Sweeten & Son, $43,944, 120 days.

BALTIMORE, MD.—We are officially advised that bids will soon be asked by the city for the construction of about 20 miles of lateral sanitary sewers. B. T. Fendall is City Engr.

DUBLIN, GA.—The city has decided to extend the sewer system here.

CLEARWATER, FLA.—Bids will be received about March 15 for the construction of a sewer system from the plans of J. A. Holmboe, of Mulberry. Estimated cost, about $25,000. Bids for the purchase of the bonds will be received at once.

GRAYMONT (Birmingham post-office), ALA.—The city has voted $10,000 of bonds for extending the sanitary sewer system about 7,000 ft.. Milner & Browne, Birmingham, are Engrs.

BIRMINGHAM, ALA.—Bids are asked until April 7 by the city for the construction of storm sewers. Noted Feb. 25. Maury Nicholson is City Engr.

MOBILE, ALA.—W. M. Wilson, Special Engr., is completing plans for a drainage system, which will soon be presented to the Board of Public Works for final consideration. The proposed system is to be open and closed canal drainage and will cover the northeastern, middle-western and northern portions of the city. Estimated cost, $750,000. J. J. McMahon is Secy. Bd. Pub. Wks.

LOUISVILLE, KY.—Bids will be received until noon, March 12, by the Commissioners of Sewerage for constructing Cave Hill Lateral sewers, Contract No. 27, and until noon, March 19, for constructing Section "A" of the Middle Fork trunk sewer, Contract No. 28. J. B. F. Breed is Ch. Engr. Comm. Advertised last week.

SANDUSKY, OHIO.—Bids will be received until March 4 by the Board of Public Service, A. J. Stoll, Pres., for furnishing material and constructing the Cable Park sewerage system.

AKRON, OHIO.—Bids will be received until noon, March 9 by the Board of Public Service, Ray F. Hamlin, Secy., for constructing a sewer in portions of Washington and Long Sts.

DAYTON, OHIO.—Bids will be received by the Clerk of the Board of Public Service until noon, March 12, for the construction of sanitary sewers in part of district No. 4 east of St. Paul and Parrott Sts., south of Newcom St., west of Linden Ave., north of Wyoming St. Approximate quantities: Vitrified pipe sewers, furnished and laid, including Y's and specials: 22,265 lin. ft. of 8-in. vitrified pipe sewer; 5,555 lin. ft. of 10-in. vitrified pipe sewer; 1,100 lin. ft. of 12-in. vitrified pipe sewer; excavation and backfill: 625 lin. ft. of trench, 10 × 6-ft.; 22,940 lin. ft. of trench 6 to 8 ft.; 4,455 lin. ft. of trench, 8 to 10-ft.; 775 lin. ft. of trench, 10 to 12-ft.; 125 lin. ft. of trench, 12 to 14-ft. deep; 75 manholes; 40 lampholes; 27 flushtanks; flushtank connections; 1,035 lin. ft. of lead pipe, including trench; 360 lin. of lead pipe, without trench; 27 corporation cocks and specials; re-paving; 50 sq. yds. of brick re-paving; 5,000 ft. of sheeting left in trench, B. M.; c.-i. pipe furnished and laid: 60 lin. ft. 8-in., 24-lin. ft. 10-in., 12 lin. ft. 12-in. c.-i. pipe. Plans and specifications on file in the office of the City Engineer. J. C. Ely is Pres. Bd.

SAINT BERNARD (Cincinnati post-office), OHIO.—Bids will be received by George Schroeder, Village Clk., until noon, March 26, for furnishing the necessary labor and materials for the construction of a sewer in Kemper Ave., from Washington Ave. to Jackson Ave., and for the construction of a sanitary sewer in Jackson Ave., from Kemper Ave. to Beecher Ave. J. A. Stewart, 1112 Traction Bldg., Cincinnati, is Village Engr.

*OXFORD, OHIO.—Bids are asked by D. P. Beaton, Village Clk., until noon, March 9, for the construction of a sewer disposal plant, consisting of a sedimentation tank, filter beds, automatic distributing machinery and controlling house. Plans and specifications can be seen at the office of the Village Clerk or at the office of The Riggs & Sherman Co., Engrs., Toledo, Ohio.

ANGOLA, IND.—Bids will be received by the Common Council until March 29 for the construction of a main sewer and sewage disposal plant. Roy Hirst is City Clk. R. L. Sackett, La Fayette, is Engr.

NORMAL CITY (Muncie post-office), IND.—Bids will be received until 8 p. m., March 16, by the Board of Town Trustees, Simon G. Mendenhall, Clk., for constructing Jackson St. sewer No. 1.

CLERMONT, IND.—Bids will be received until March 13 by the Board of Trustees, Indiana Girls' School for constructing pipe sewers, concrete tanks, walls, filters, etc., for the completed sewage purification plant for the school. R. L. Sackett, Engr., Purdue University, La Fayette.

EAST ST. LOUIS, ILL.—The Board of Local Improvements on Feb. 22 awarded the contract for the construction of outlet sewers to O. T. DUNLAP & CO., of Edwardsville, at $710,267, the lowest of eight bidders. The highest bid was $810,383. The estimated cost of the improvement was $743,000. List of bidders noted last week.

*GRUNDY CENTER, IOWA.—Bids will be received by Charles T. Rogers, Town Cerk, until 8 p. m., March 8, for furnishing material and constructing a sewer outlet and disposal plant. The extent of work is as follows: 2,890 ft. of 6-in., 14,650 ft. of 8-in., 4,220 ft. of 10-in., 390 ft. of 12-in., 500 ft. of 15-in. pipe sewer; 53 manholes; eleven flushtanks; one septic tank; 175 ft. of 15-in. sewer (tank outlet); four manholes (outlet); all Y branches are included in above.

MINNEAPOLIS, MINN.—We are officially advised that the following contracts were awarded by the City Council on Feb. 20, for sewer brick, etc.: 1,000,000 sewer brick to the MINNEAPOLIS BRICK & TILE CO., Minneapolis, at $9 per M.; 1,000,000 sewer brick to the WISCONSIN RED PRESSED BRICK CO., at $9.25; 200 tons of special castings to the DIAMOND IRON WORKS, Minneapolis, at $29 per ton; 5,000 bbls. of natural cement to LANDERS, MORRISON, CHRISTENSEN & CO., Minneapolis, at 57 cts. per bbl.; 10,000 bbls. of Portland cement to the NORTHWESTERN LIME CO., St. Paul, at $1.15 per bbl.

FORT RILEY, KAN.—Bids will be received by the Constructing Q. M., U. S. A., until 10 a. m., March 13, for the construction of approximately 2,300 ft. of sewer and six manholes.

ABERDEEN, S. DAK.—Bids are asked until 8 p. m., March 15, by F. W. Raymond, City Audr., for the construction of any and all of the sewers ordered by the City Council, approximately as follows: 4,332 ft. of 10-in. 2,906 ft. of 12-in.

JOPLIN, MO.—Burns & McDonnell, Consult. Engrs., Scarritt Bldg., Kansas City,

Mo., and J. B. Hodgdon, City Engr., have prepared plans for brick storm and sanitary sewers for Joplin. Estimated cost, $96,000.

HOLDENVILLE, OKLA.—The citzens on Feb. 17 voted to issue $35,000 of bonds for the construction of main sanitary sewers. C. E. Arnold is Mayor.

NOWATA, OKLA.—The citizens on Feb. 15 voted to issue bonds for the construction of a sewerage system here.

CARLSBAD, N. MEX.—Burns & McDonnell, Consult. Engrs., Scarritt Bldg., Kansas City, Mo., have prepared plans and specifications for sanitary sewers at Carlsbad. Estimated cost, $30,000. James M. Dye is Mayor.

EL CENTRO, CAL.—The following bids were opened on Feb. 9, by the city for the proposed sewer system: Frick & Ware, $26,445; J. D. Kneen of Santa Monica, $26,501; Arthur S. Bent, $26,660; M. Magonivich, $26,891; California Ornamental Brick Co., $27,219; Lowell & Stevens, $27,282; G. A. Rogers, $28,269; C. E. Hubbell, $28300; J. W. Martin, $29,747; W. T. McBride, $31,139; McIntyre Cement Co., $30,379; C. D. Vincent, San Francisco, $30,474; M. L. Hostetter, $31,000; E. R. Werdin & Co., $33,482; Newell Bros., $36,961.

SANTA CRUZ, CAL.—We are officially advised that the contract for constructing 16¼ miles of 6 to 12-in. sewers has been awarded by the city to WOLF & ANTHONY, at $45,979. Bids were opened on Feb. 15. L. G. Williams is City Engr.

GARBAGE DISPOSAL.

BOSTON, MASS.—Bids are asked until noon, March 8, by Guy C. Emerson, Supt. of Streets, for cleaning, oiling and watering the public streets and sidewalks in a portion of West Roxbury St.

EASTON, PA.—Bids are asked by the Department of Garbage Disposal until 8 p. m., March 22, for furnishing and erecting on the property of the city a plant for the disposal by incineration of all garbage, ashes and other refuse collected in the city and delivered at the plant. The approximate amount of garbage, ashes and other refuse to be treated is either 25 or 35 tons per day, and contractors must bid on two plants, one having an actual capacity of 25 tons per day and the other an actual capacity of 35 tons per day. The city will erect but one plant. John McNeal is City Engr.

COLUMBUS, OHIO.—Local press reports state that plans are now being prepared and contract will be let in about a month by the Board of Public Service for a garbage disposal plant to cost between $150,000 and $170,000.

PORTLAND, ORE.—The City Council has adopted a resolution, it is reported, providing for the issue of $150,000 of bonds for the construction of crematories and providing for a garbage collection system, the question to be submitted to the citizens at the coming election.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

EVERETT, MASS.—Estimates are now being prepared by the Engineering Department for permanent pavement on various materials. Christopher Harrison is City Engr.

WATERBURY, CONN.—R. A. Cairns, City Engr., has estimated the cost of proposed paving as follows—(a) bitulithic, (b) brick, (c) asphalt, (d) wood: West Main St., (a) $25,000, (b) $26,700, (c) $27,500, (d) $32,850; East Main St., (a) $8,400, (b) $8,700, (c) $9,000, (d) $10,750; Grand St., (a) $20,850, (b) $21,550, (c) $22,250, (d) $26,550; Meadow St., (a) $27,500, (b) $28,500, (c) $29,450, (d) $40,100.

BROOKLYN, N. Y.—Bids will be received by Bird S. Coler, Boro. Pres., until 11 a. m., March 10, for regulating and repaving with asphalt on a concrete foundation the roadway at Fulton St. and Flatbush Ave. Engineer's estimate: 21,284 sq. yds. asphalt pavement, outside railroad area, 5-yr. maintenance; 3,006 sq. yds. asphalt pavement, within railroad, no maintenance; 93 sq. yds. old stone pavement, to be relaid in approaches, etc.; 2,967 cu. yds. concrete, outside railroad area; 419 cu. yds. concrete within railroad area; 3,846 lin. ft. new curb, set in concrete; 1,850 lin. ft. old curb, reset in concrete; two noiseless manhole heads and covers; 20,886 sq. ft. cement sidewalks; also for furnishing and delivering where directed the following: 16,029 cu. yds. broken trap rock and 5,846 cu. yds. trap rock screenings; 100,000 sq. ft. bluestone flagstone, 6,000 cu. yds. paving sand, 10-ton steam macadam roller, 1,200 tons of 2,000 lbs. each, of refined asphalt, 2,500 bbls. Portland cement, 1,500 cu. yds. binder stone, 700 net tons limestone or other inorganic dust, 75 M. ft. lumber, etc.

NEW YORK, N. Y.—Bids are asked by the Department of Parks until 3 p. m., March 11, for furnishing and delivering Ron Hook gravel, or gravel of equal quality, on parks and parkways, in the Borough of Manhattan, City of New York.

MAMORONECK, N. Y.—We are officially advised that the Board of Trustees opened bids as follows on Feb. 24 for grading Ward Ave. and constructing a new bridge where that street crosses the Mamaroneck River: George Sargent, Jr., New York, $17,400; J. N. H. Cornell Co., New York, $13,571; Rickey-Swan Co., Trenton, N. J., $10,220; Eldridge & Grannis, Ossining, N. Y., $9,990; Lafferty & Weir, New York, $9,700; Merrill-Ruckgaber Co., New York, $9,479; Wilson & English, New Rochelle, N. Y., $9,419; M. Fitzgerald, Hoosick Falls, N. Y., $9,381; Cincotta & Semachio, Brooklyn, $9,300; Connor-McIntyre Co., New York, $9,179; Cement Paving & Cons. Co., New York, $8,950; G. A. Underzazt, New York, $8,495; Wm. T. McKibb & Co., New York, $8,472; Frank Cestone, White Plains, N. Y., $8,325; RYAN-UNMACK CO., New Haven, Conn., $8,290 (awarded contract).

NEW YORK, N. Y.—Bids are asked until 2 p. m., March 10, by John F. Ahearn, Pres. Boro. of Manhattan, for repairing asphalt block pavement in the Borough of Manhattan; regulating, grading and paving with asphalt block pavement on concrete foundation the roadway of Tenth Ave., from Academy St. to Broadway; widening the roadway and repaving with sheet asphalt pavement on concrete foundation the widened roadway of Fifth Ave., from the north side of 25th St. to the south side of 47th St., except between 40th and 42d Sts; furnishing and delivering 1,000 cu. yds. of trap rock broken stone and 1,000 cu. yds. of trap rock screenings; furnishing and delivering 9,000 cu. yds. of sand.

NEW YORK, N. Y.—Bids are asked until 2 p. m., March 12, by John F. Ahearn, Pres. Boro. of Manhattan, for furnishing materials and performing the work of building an extension and improvement of Riverside Drive, from the north side of West 155th St. to connect with the proposed Hudson Memorial Bridge, together with all work incidental thereto.

*KINGSTON, N. Y.—Bids are asked by the Common Council until 7. 30 p. m., March 19, for grading of streets, regulating, furnishing and resetting curbs and for paving with repressed vitrified paving brick, first quality block size: Broadway, from Spring St. to the northerly curb line of Albany Ave.; Main St., from the westerly line of the present pavement at Fair St. to the westerly crosswalk at Wall St.; Wall St., from the southerly crosswalk at Main St. to North Front St., and North Front St., from the westerly crosswalk at Fair St. to the westerly curb line of Crown St., a total of about 53,500 sq. yds. Dayton Murray is City Clk.

*WATERTOWN, N. Y.—Bids will be received by the Board of Public Works at the office of E. W. Sayles, City Engr., until 5 p. m., March 30, for the construction of about 4,500 sq. yds. of pavement on a portion of LeRay and Main Sts., including the street intersection of LeRay and Main Sts., together with the necessary curbing, grading, culveris, sewers, catch basins, and all other work in connection therewith for the proper completion of the pavement. Bids will be received for each of the following kinds of pavement: Medina sandstone block pavement on concrete base and vitrified paving brick or block on concrete base.

*GENEVA, N. Y.—Bids will be received by the Board of Public Works until 7. 30 p. m., March 18, on the following items for street paving with vitrified brick on concrete, macadam, tar macadam, asphaltic macadam, sheet asphalt and block asphalt: Square yards of pavement, 14,000; excavation, cu. yds., 6,500; curbstone, lin. ft., 9,000; vitrified sewer tile, lin. ft., 4,245; catch basins, 28. Specifications, blank proposals, etc., may be had by application at office of Board.

TRENTON, N. J.—The County Engineer is preparing plans, it is stated, for 18 miles of stone roads to be constructed in Mercer County. Estimated cost, about $125,000.

CAPE MAY, N. J.—Bids will be received until noon, March 16, by the Board of Chosen Freeholders at Cape May Court-House, Anthony B. Smith, Dir., for constructing a gravel road known as Holly Beach Turnpike, 2,902 miles in length. R. Fendall Smith is County Engr., Ocean City, N. J. Advertised last week.

COLLEGE HILL (Beaver Falls post-office), PA.—The contract for improving College Ave., about 9,000 sq. yds. vitrified brick paving and 2,800 lin. ft. 20 to 36-in. storm sewer, bids opened on Feb. 19, has been awarded to DAVID R. PORTER, of Beaver Falls, at $15,261. Pennsylvania clay block will be used. Carl S. Donaldson is Boro. Engr.

MOUNT PENN, PA.—The citizens on Feb. 16 voted to issue $10,000 of bonds for street improvements. W. H. Dechent, of Reading, is Engr.

LOCK RAVEN, MD.—See item under Buildings.

BALTIMORE, MD.—The Colonial Park Estates Co., L. G. Turner, 208 Union Trust Bldg., will soon lay cement pavements, including 5,000 lin. ft., about 4 ft. wide, opening and grading 3,600 lin. ft. of streets and other improvements to its suburban property. Estimated cost, $10,000.

The Board of Awards on Feb. 17, it is stated, awarded the contract for sheet asphalt for repair work on city streets to the F. E. SCHNEIDER PAVING CO., Law Bldg., at $21,983. B. T. Fendall is City Engr.

Bids are asked until 11 a. m., March 10, by the Board of Awards for grading, curbing, guttering and paving with improved paving Remington Ave. and First Ave., from 29th St. to Cedar Ave.; 30th St., from Huntingdon Ave. to Remington Ave. J. Barry Mahool is Pres. Bd.

ROCKVILLE, MD.—The County Commissioners on Feb. 23 awarded to the McKAY ENGINEERING CO., 9 East Lexington St., Philadelphia, the contract for the construction of a Shoemaker pike from Kensington, Montgomery County, to Bradley Lane, Chevy Chase, a distance of about 3¼ miles, at about $31,000. According to the specifications, the pike will be 14 ft. wide from Bradley Lane to Chevy Chase Lake and 12 ft. in width from the lake to Kensington. The work of construction will begin just as soon as the weather permits.

DINWIDDIE, VA.—The citizens have voted in favor of issuing $100,000 of bonds for road improvements in Dinwiddie County.

ATLANTA, GA.—NICHOLSON SONS, of Atlanta, have been awarded the contract to construct a 50-ft. macadamized road from East Lake County Clubhouse to Georgia R. R., a distance of 1½ miles, where it will connect with Ponce de Leon Ave. in Druid Hill Park. Estimated cost, $8,000.

COVINGTON, LA.—The city has awarded contract to F. F. PLAUCH, of Covington, for grading 15 miles of streets.

CHATTANOOGA, TENN.—The Board of Public Works has awarded contract to the SOUTHERN PAVING & CONSTRUCTION CO., First National Bank Bldg., Chattanooga, at $24,870, for paving about 12,000 sq. yds. on East Main St. with vitrified brick. H. T. Van Dusen is Chn. Bd.

KINGSPORT, TENN.—The KREIS-FRENCH CO., Knoxville, Tenn., has been awarded contract for grading of a Y and other sidings at the yards of the Carolina, Clinchfield & Ohio Ry. here.

BRYAN, OHIO.—Bids will be received until March 16 by the Board of County Commissioners, Bryan, for grading and macadamizing about 1¼ miles of road in Springfield Township, under the provisions of the state highway law. Estimated cost, $6,999. James C. Wonders is State Highway Comr. Columbus.

ASHTABULA, OHIO.—Bids will be received by the County Auditor of Ashtabula County, Jefferson, State of Ohio, until 1 p. m., March 22, for the grading and macadamizing of 3.8 miles of road.

CLEVELAND, OHIO.—Bids will be received at the office of the Secretary of the Board of Public Service, until noon, March 11, for furnishing about 90,000 ft. of B. M. of long leaf yellow pine paving blocks. W. J. Springborn is Pres.

SAINT BERNARD (Cincinnati post-office), OHIO. — We are officially advised that bids were received by the village on Feb. 17 for the improvement of Murray Road, from Carthage Pike to the Miami and Erie Canal, by grading the same to its full width, paving with macadam the roadway, constructing concrete curb and gutters, laying cross-walks, furnishing materials and constructing the necessary drains, culverts and raining walls. The lowest bidders were Moran & Springmeir, Cincinnati, Ohio, at $12,141. George Schroeder is Village Clk.

Bids are asked until March 26 by the village for the improvement of Kemper and Jackson Aves.

TIPTON, IND.—Bids are asked by J. F. Barlow, Audr. Tipton County, and W. T. Richards, Audr. of Madison County, until 11 a. m., March 19, for the construction of the Peck gravel road, joint between Madison Township, Tipton County, and Pike Township, in Madison County.

NOBLESVILLE, IND.—The Commissioners of Hamilton County will receive bids for the construction of a gravel road on the line between Hamilton and Marion counties.

The same board has awarded a contract for the construction of the Pickle-Vail gravel road to EWING SHIELDS, of Seymour.

MANISTEE, MICH.—Bids will be asked about April 1 for six blocks of paving with brick or bitulithic. Estimated cost, $14,000.

BEAVER DAM, WIS.—Bids are asked until 7.30 p. m., March 12, by Anton A. Fischer, City Clk., for constructing about 15,000 sq. yds. of brick pavement.

WEBSTER CITY, IOWA.—Bids will be received until March 8 by the city for about 25,000 sq. yds. brick block paving. P. M. Banks is City Clk.

FORT D. A. RUSSELL, WYO.—Bids are asked by Capt. V. K. Hart, Constructing Q. M., until 9.30 a. m., March 23, for constructing the following estimated quantities of sidewalks and roads at Fort D. A. Russell: 55,407.67 sq. ft. of sidewalks, of concrete or stone; 15,570 sq. yds. of completed roadways; 6,250 sq. yds. of roadway, grading only (no surfacing). Plans, specifications and profiles are on file at the office of the Constructing Q. M.

KANSAS CITY, MO.—The Board of Public Works on Feb. 16 awarded contracts for paving, as follows: Sandstone block paving, to BOYD CONSTRUCTION CO., for paving portions of Union St. at $3.07 per sq. yd., and to M. MENSE, for paving Tenth St., from Wyandotte St. to Main St., at $2.97; asphalt paving, to CLEVELAND TRINIDAD PAVING CO., for paving Wyoming St., at $2.18 per sq. yd.; 9th St., at $2.08; McGee and 24th Sts., at $1.96, and Chestnut St. and Mastin Pl., $1.98, and Lynn Ave., at $2.25; to BARBER ASPHALT CO., for paving Scarritt and Grauman Aves., at $1.89, and Eleventh St. and Denver Ave., at $1.88, and 34th St., at $2; to PARKER-WASHINGTON CO., for Mercier St., at $1.84, 42d St. and Tracy Ave., at $1.85; 41st St., at $1.86; 40th St., at $1.89; 30th St. and Corbin Terrace, at $1.90; 24th St., at $2.25; METROPOLITAN ENGINEERING & CONSTRUCTION CO., for 34th St., at $2. R. W. Goodnow is Secy. Bd.

LAKE VILLAGE, ARK.—The contract for laying about 13,000 sq. ft. of concrete sidewalks, bids opened on Feb. 20, has been awarded by the Board of Improvements to LUND & HILL, of Little Rock, at 16½ cts. per sq. ft.

DALLAS, TEX.—Bids are asked by the Municipal Commissioners for paving North Ervay St., from Bryan to Ross Sts, until March 5 on various kinds of paving materials, including bitulithic. J. M. Preston is City Engr.

COALGATE, OKLA.—The city will construct ten miles of concrete sidewalks. Contracts will probably soon be awarded. D. D. Brunson is Mayor.

HOLDENVILLE, OKLA.—The city has voted $8,000 of bonds for street improvements.

DENVER, COLO.—The Board of Public Works on Feb. 16 awarded the contract for paving with concrete 71 alleys in Capitol Hill Paving District, to the COMMONWEALTH CONSTRUCTION CO., Colorado Bldg., Denver, at about $80,000.

SEATTLE, WASH.—The Board of Public Works has awarded the following contracts for street improvements: Eastlake Ave., and other streets, concrete sidewalks, NICHOLAS & JAHN, $15,859; Washington St. and other streets, paving, F. McLELLAN & CO., $132,341; Sixth Ave. and other streets, paving, PAUL STEENSTRUP, $102,139.

R. H. Thomson, City Engr., has reported upon the estimated cost of the following local improvement work: 21st Ave. South and other streets, grading and curbing, $96,500; 50th Ave. South and other streets, grading and curbing, $15,[illegible] and other streets, planking [illegible] St. and other streets, pav[illegible]

POMONA, CAL.—T. [illegible] been awarded contract for [illegible] eling Huntington Boulev[illegible] of two miles.

MONTREAL, QUE.—Bi[illegible] until March 9 by the ci[illegible] plies and materials for p[illegible] and pavements.

PRINCE ALBERT, SA[illegible] received until March 18 fo[illegible] stone crusher, one elevato[illegible] electric motor and one [illegible] F. A. Creighton is City En[illegible]

MANUFACTURING [illegible] ANTS.

(denotes that this work [illegible] Engineering N[illegible]*

LAWRENCE, MASS.—W[illegible] advised that the contract f[illegible] the proposed Ayer mill, at t[illegible] American Woolen Co., has [illegible] CHARLES T. MAIN, 45 [illegible] and that for the construct[illegible] ings with E. W. PITMAN [illegible] Mass. The work will cover [illegible] of a worsted spinning mill [illegible] spindles. The main buildi[illegible] 600 ft. long by 123 ft. wide, [illegible] and a basement. A wool s[illegible] scouring building will be [illegible] four stories high and measu[illegible] by 123 ft. wide; also a dy[illegible] dyeing. A power plant of [illegible] 4,000-KW. capacity will be [illegible] the power transmission wi[illegible] Work is to begin immediate[illegible]

NEW YORK, N. Y.—We ar[illegible] vised that the TURNER CO[illegible] CO., 11 Broadway, has secure[illegible] contract for reinforced-con[illegible] storage house at the Erie B[illegible] for the Union Sulphur Co.

A 4-story garage, workhous[illegible] of reinforced-concrete constru[illegible] built at a cost of $560,000 [illegible] Boschen and others on a plot [illegible] End Ave., extending through [illegible] 66th to 67th St. It is to ha[illegible] 288.8 ft. and a depth of 200 ft. [illegible] Phillips & Co., 50 Church St., [illegible]

Plans have been filed for a [illegible] tory to be erected at 518 to 5[illegible] St., at a cost of $200,000 [illegible] who has leased it for a term of [illegible] Wolff.

ALBANY, N. Y.—Cold Storage Buildings—See item under Buildings.

HOBOKEN, N. J.—The TURNER CONSTRUCTION CO., 11 Broadway, New York, advises us that it has secured a contract for reinforced-concrete floors and ceilings for a 3-story bakery for John Schepp & Sons, Eighth and Clinton Sts., Hoboken. The building will be 70 × 100 ft. Walter Kidd is Engr.

JERSEY CITY, N. J.—We are officially advised that contract for reinforced-concrete cold storage warehouse for the Union Terminal Cold Storage Co., Jersey City, has been let to the TURNER CONSTRUCTION CO., 11 Broadway, New York. Size of building, 72 × 100 ft., six stories, with basement and attic.

BALTIMORE, MD.—We are officially advised that Price Bros. Co., 308 to 324 North Gay St., is having plans prepared by John Freund, Jr., 210 East Lexington St., Baltimore, for proposed addition to plant, 71.4 × 85.6 ft., three stories high, with basement, reinforced concrete construction, brick walls. The building will be fireproof, with 25,000 sq. ft. floor space, steam heat, electrical equipment and elevators. Cost, about $20,000. Plans will be ready about March 6.

NORTH MOUNTAIN, W. VA.—L. I. Dirting and F. H. Robins will establish a brick plant, it is stated, with capacity of about 100,000 bricks daily. Cost, about $100,000.

CONCORD, N. C.—The management of the Cannon Mfg. Co. and the Patterson Mfg. Co. will build an addition for looms at their plants at Kannapolis, N. C. John W. Cannon, of Concord, N. C., is Pres. of both companies. The Cannon plant has at present 30,000 ring spindles and 900 narrow looms, and the Patterson plant has 21,120 ring spindles and 400 broad looms, both driven by electric power and employing about 2,000 persons in all.

LEXINGTON, N. C.—The Dacotah Cotton Mills, of this city, will award contract soon for the construction of buildings, including the main structure, 100 × 200 ft., dye house, boiler room, etc. The company plans to install 8,208 spindles and 250 looms for manufacturing colored cloth.

PIEDMONT, ALA.—It is reported that the Coosa Mfg. Co., of Piedmont, has purchased land and will erect a mill. The present plant, which may be duplicated, has 29,650 spindles for manufacturing yarns. The erection of such a factory would cost between $400,000 and $500,000.

FULLERTON, LA.—The Gulf Lumber Co. will erect a mill, 64 × 212 ft., of steel and concrete. Capacity, 250,000 ft. daily. Cost, about $125,000. M. L. Fleishel, Vice-Pres. and Gen. Mgr., has offices at St. Louis, Mo.

ST. BERNARD, LA.—The American Sugar Refining Co. will rebuild its plant, which was destroyed by fire recently, at a loss of about $175,000. The entire stretch of wharf, 800 ft. in length and 83 ft. wide, was almost entirely destroyed. The wharf had just been completed when the fire destroyed it. It was constructed on concrete piles sunk below the river and supported by steel girders and framework. The sides were constructed of corrugated iron. The flooring and woodwork was all creosoted timber and highly inflammable. It is estimated that 25% of the woodwork on the wharf has been saved, while 80% of the steel work can be made use of again. Henry Ness is Gen. Supt. and George Denkle, Engr. and Arch., 117 Wall St., New York, N. Y.

CLEVELAND, OHIO.—See item under Light and Power Plants.

CLEVELAND, OHIO.—George S. Rider & Co., 512 Century Bldg., Consult. Engrs., have completed plans for a foundry building and coke ovens for the W. S. Tyler Co., 30th St. and Clark Ave., N. E. The contract for the mason work has been awarded to ANDREW DAVIS & SON, 247 Euclid St., and the steel work has been let to the NATIONAL IRON & WIRE CO., 3901 Hamilton St.

George S. Rider & Co., Consult. Engrs., in the Century Bldg., Cleveland, have prepared plans and specifications for several factory buildings and an addition to the power plant for the Cleveland Worsted Mills Co., of this city. The total amount involved in the improvement is about $300,000.

INDIANAPOLIS, IND.—The Climax Coffee & Baking Powder Co., 521 East Washington St., is arranging to build a plant at Davidson St. and the Pennsylvania R. R. tracks. A building permit for the new plant has been issued by the City Controller. As planned, the building will be a 3-story slow-burning structure and will cost $34,000. HENRY BESSNER is the contractor who will build the plant.

DETROIT, MICH.—The Pope Baking Co. is to have a new factory at Jefferson and LeMay Aves., in the Fairview section. The building, the plans for which have been prepared by Mildner & Eisen, Archs., Hammond Bldg., will be 60 × 80 ft., with two stories and basement. It will have a pressed brick front, with stone trimmings and composition roof. The interior will be fireproof, all concrete columns and concrete and tile floors. The Gabriel system to be used. The bakery will contain all modern equipment, with three ovens. Contracts have been awarded as follows: Masonry, MAX BARTHOLOMEI, Warren and Dequindre Sts.; carpenter work, ANDREW HILD; iron work, WHITEHEAD & KALES, Beecher St; plumbing, CHARLES BRAUN; plastering, AUSTIN & SCHNEIDER; cut stone, WILLIAM PIGGINS SONS; painting, KELLOGG & LANGE; roofing, LOWRIE ROOFING CO.

CHICAGO, ILL.—The RUDOLPH S. BLOME CO., Unity Bldg., has been awarded the contract for all the reinforced concrete work of the cold storage and freezer warehouse, being erected in the Union Stock Yards, for Nelson Morris Co. This building covers an area of over 210 × 250 ft.

KANSAS CITY, MO.—F. P. Burnap Printing & Stationery Co. will erect a plant to replace present structure. The building will have six stories, reinforced concrete and terra cotta construction, and a foundation to carry ten stories. Cost, about $50,000. John W. McKecknie, New York Life Bldg., Kansas City, is Arch.

ST. JOHNS, ORE.—The Oregon Sienna Mineral Paint Co. has purchased a site in St. Johns and will erect a paint factory. About $100,000 will be invested in the enterprise. Building will be 50 × 60 ft., with full concrete basement.

BRANDON, MAN.—Bids are asked by Frank Lee, Division Engr., until noon, March 10, for a 6-stall engine-house to be erected here for the Canadian Pacific Ry. Co.

MISCELLANEOUS CONTRACTS.

U. S. RECLAMATION SERVICE.—Items regarding irrigation, canal projects, etc., will be found under Water Supply—Irrigation.

CEMENT, ETC.—Minneapolis, Minn.—See item under Sewerage.

DITCH.—Sioux City, Iowa.—Bids are asked by E. E. Hosmer, County Audr., until March 9 for constructing the Hackley lateral ditch; total length, about four miles.

DITCH.—Hamilton, Ind.—Bids are asked by Thomas P. French, Supt. of Drains for Steuben County, until 6 p. m., March 11, for the construction of the Hiram Sweet ditch.

*CREEK IMPROVEMENT.—Wilmington, Del.—Bids are asked until 11 a. m., March 26, by Capt. L. H. Rand, Corps Engrs., for dredging for improvement of Raccon Creek, N. J.

CEMENT AND SAND.—Montreal, Que.—Bids are asked until noon, March 8, by David Seath, Secy.-Treas., 57 Common St., Montreal, for Portland cement and sand. F. W. Cowie is Ch. Engr.

DITCH.—Fowler, Ind.—The contract for constructing N. B. Curtis Joint Ditch in Round Grove Township has been awarded to C. W. BECKER & SON, of Lafayette, for $15,062. Charles B. Whicker is County Surv.

DITCH.—Olivia, Minn.—Bids will be received until March 8 by J. L. Johnson, County Audr., for constructing Judicial Ditch No. 3, comprising about 33,165 cu. yds. earth excavation. Estimated cost, $3,980.

*ROCK REMOVAL.—New York, N. Y.—Bids are asked until noon, March 26, by Lt.-Col. S. W. Roessler, Corps Engrs., U. S. A., Army Bldg., New York, for removal of rock in North River off Pier A, New York Harbor.

DITCH.—Calamus, Iowa.—Bids are asked until March 8 by the Board of County Commissioners, R. C. Hart, County Surv., at Clinton, Iowa, for constructing a ditch north of Calamus. Estimated quantity, 100,000 cu. yds.

TELEPHONE MATERIALS.—Winnipeg, Man.—Bids are asked until March 9 by the Manitoba Telephone Commission for all poles, materials and supplies required for construction during the present year. F. C. Patterson is City Controller.

MONUMENTS.—Terre Haute, Ind.—Bids are asked by the Board of Commissioners of Vigo County until 11 a. m., March 27, for the construction and completion of a soldiers' monument. Nathan G. Wallace is County Audr. Louis P. Seeburger, Chn.

*DAM.—Sault Ste Marie, Mich.—Bids are asked until 3 p. m., March 30, by Lieut.-Col. C. McD. Townsend, Corps Engrs., U. S. A., Detroit, Mich., for the construction of the superstructure of a movable dam for St. Marys Falls Canal, Sault Ste Marie, Mich.

*LIGHT-HOUSE, ETC.—Cleveland, Ohio.—Bids are asked until 11 a. m., March 30, by the Light-house Engineer, Buffalo, N. Y., for furnishing materials of all kinds necessary for the construction of a light-house and an iron beacon at the entrance to Cleveland Harbor, Ohio.

LIGHT VESSEL.—Washington, D. C.—Bids are asked by the Light-House Board, Washington, until 2 p. m., April 2, for furnishing materials and labor of all kinds necessary for the construction, equipment and delivery of the first-class single screw steel steam Light-Vessel No. 94.

DRAINS.—Atkinson, Ill.—Bids will be received until March 6 by the Commissioners of Drainage Union District No. 1, towns of Atkinson and Alba, Henry County, for constructing drains for 38,380 ft. tile ditches. H. E. Reeves is Engr., Atkinson; Edward Nowers, Atkinson, is Comr.

HOSE.—New York, N. Y.—Bids are asked until noon, March 11, by William H. Edwards, Comr. of Street Cleaning, for furnishing and delivering 2½-in. rubber hose, as follows: 15,000 ft. for Boro. of Manhattan; 1,200 ft. for Boro. of The Bronx; 3,000 ft. for Boro. of Brooklyn.

DUMPING AND FILLING.—New York, N. Y.—Bids are asked by Allen N. Spooner, Comr. Docks and Ferries, until noon, March 5, for the right to pump and fill in behind the bulkhead wall to be built on the Gowanus section, between 31st and 32d Sts., South Brooklyn, Boro. of Brooklyn.

PIER REPAIR, ETC.—Baltimore, Md.—Bids are asked until 11 a. m., March 10, by the Board of Awards, for the repair of the west end of center pier, back basin, and the west bulkhead of Block St., together with the construction of a small pile and timber pier. Oscar F. Lackey is Harbor Engr.

HEADSTONES.—New York, N. Y.—Bids are asked until 11 a. m., March 10, by Bird S. Coler, Pres. Boro. of Brooklyn, for furnishing and erecting headstones over the graves of deceased Union soldiers, sailors and marines, in the several cemeteries situated in the counties of Kings and Queens.

GATE-HOUSE.—Boston, Mass.—Bids are asked until March 15 by the Charles River Basin Commission, 307 Boylston St., for constructing the Fens gate-house, which is to be built upon a foundation already constructed near the corner of Charlesgate East and Back Sts. Hiram A. Miller is Ch. Engr.

DITCH.—Owatonna, Minn.—Bids will be received until March 8 by J. A. Bosshard, County Audr. of Steele County, at office of State Drainage Engr., Old State Capitol, St. Paul, for constructing a main ditch and 10 branch ditches of Judicial Ditch No. 1, Steele and Waseca Counties. Estimated cost, $52,202.

SPRINKLING TRUCKS.—New York, N. Y.—Bids are asked until noon, March 15, by William H. Edwards, Comr. Street Cleaning, for furnishing and delivering parts for repairs of sprinkling trucks, Class I.; parts for repairs of Austin 350-gallon sprinkling trucks, Class II.; parts for repairs of Studebaker sprinklers.

*FIRE DEPARTMENT SUPPLIES.—Anadarko, Okla.—Bids are asked until 7 p. m., March 15, by J. A. McCampbell, for the following supplies: One combination chemical and hose wagon, 40 gallons capacity; 2,000 ft. hose, with non-crossable screw coupling; two reducing nozzles (long), two underwriter's nozzles, one hose expounder, one double adjustable harness, 450 ft. shackle-bars.

LEVEE.—New Orleans, La.—The State Board of Engineers on Feb. 15 awarded contracts for work on the Atchafalaya River, in Pointe Coupee Parish, in the Atchafalaya Basin Levee District, as follows: For enlargement of the Holloway Levee, about 42,000 cu. yds., to R. T. CLARK at 37.89 cts. per cu. yd.; and enlargement of Latenache Levee, 40,000 cu. yds., to HEARN & RYAN, at 17.99 cts. per cu. yd.

REPAIRING PIER, ETC.—New York, N. Y.—Bids are asked until noon, March 12, by Allen N. Spooner, Comr. Dept. of Docks and Ferries, for Contract No. 1156—Furnishing all the labor and materials required for preparing and refendering Pier 53, Noth River, in the Boro. of Manhattan, and preparing foundations for street front of bulkhead building, and for preparing for and building freight shed on Pier 53, North River, near the foot of Little West Twelfth St., with lateral extension on the adjacent bulkhead platform.

BARGE CANAL.—Albany, N. Y.—The State Canal Board has approved the following additional contracts for Barge Canal construction work: Contract No. 29, for improving the Erie Canal from a point near Sterling Creek to the Oneida-Herkimer County line; length, four miles; Contract No. 32, for constructing gates, needle beams, needles and lock valves; and Contract No. 36, for providing 18 winches for movable dams in the Mohawk and Genesee Rivers. It is expected that bids will be asked on these contracts soon. F. C. Stevens is Supt. Public Works.

CEMENT.—Washington, D. C.—The Secretary of the Interior, Washington, D. C., has awarded contracts as follows for furnishing cement for the reclamation projects: To the COLORADO PORTLAND CEMENT CO., Denver, Colo., 10,000 bbls. for Uncompahgre Project, Colo., at $1.18 per bbl., and 16,600 for the two projects in Idaho, 94 cts. per bbl., both f. o. b. cars at Portland, Colo. To the WESTERN PORTLAND CEMENT CO., Yankton, N. Dak., 12,000 bbls. at $2.18, f. o. b. cars at Belle Fourche. To the UNIVERSAL PORTLAND CEMENT CO., Chicago, 3,000 bbls. for Montana and North Dakota projects, at 95 cts., f. o. b. cars at South Chicago, Ill. To the IOLA PORTLAND CEMENT CO., Iola, Kan., 63,000 bbls. at 80 cts. per bbl., f. o. b. cars Iola; 30,000 bbls, being for the Shoshone project, Wyo., and 33,000 bbls. for the projects in the Southern Division, embracing Arizona, New Mexico, Texas, Utah and Southern California. To the PACIFIC CEMENT CO., of San Francisco, Cal., 25,000 bbls. for the projects in Northern California, Oregon and Washington.

EXAMINATIONS.

CITY ENGINEER.—Wetaskiwin Alta. (Canada).—Applications will be received until March 15 by E. Roberts, City Clerk, for the position of City Engineer. Applicants are to furnish references and state experience respecting sewers, water-works, street paving and concrete sidewalks. Applicants to state salary required. Services to commence about April 1.

CITY ENGINEER.—Saskatoon, Sask. (Canada).—J. H. Trusdale, City Clerk, Saskatoon, will receive applications for position of City Engineer until March 23.

ASSISTANT CURATOR.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 30 to secure eligibles from which to make certification to fill a vacancy in the position of Assistant Curator (male), Division of Plants, National Museum, at $1,200 a year, and vacancies requiring similar qualifications as they may occur. Competitors will not be assembled for any of the tests. Age limit, 20 years. Application Form 304 and special form. Applications must be filed prior to closing hour on March 30.

LABORATORY AID.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on March 30 to secure eligibles from which to make certification to fill a vacancy in the position of Laboratory Aid in Agricultural Technology (male), at $50 a month, in the Bureau of Plant Industry, Dept. of Agriculture, and vacancies requiring similar qualifications as they may occur in that department. Age limit, 17 to 25 years. Application Form 304.

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

PUDDLE MACHINERY.—Middleport, N. Y.—The Empire Engineering Corporation, W. W. Brown, Supt., is in the market for puddle mixing machinery.

COAL-MINING MACHINERY.—Minden, W. Va.—G. S. Borden, Ch. Engr., New River & Pocahontas Con. Coal Co., writes us that owing to fire the catalog files of the company were destroyed and new literature is desired treating on the equipment and operating of coal mines.

FOUNDRY SUPPLIES AND EXCAVATING MACHINERY.—Niagara Falls, Ont.—Gardner & Wilson, Civil Engrs., write us for catalogs of foundry supplies and equipment; also excavating and earth conveying machinery.

TRADE CATALOGS.—New Haven, Conn.—Prof. S. E. Barney, of the Sheffield Scientific School, New Haven, Conn., desires, for students' references library, trade catalogs from firms dealing in water-works supplies, paving materials, railway track appliances, cement, concrete reinforcement, sewer pipe, excavating machinery, etc.

SAND DIGGING MACHINERY.—Stanhope, N. J.—J. G. Hodgson writes that he will be in the market soon for a sand and gravel digging machine.

RADIATOR.—Schenectady, N. Y.—J. Hommel, 41 Front St., is in the market for an extensive order of radiators, for abroad, cash payment. He desires catalogs, prices, weights, etc.

INDUSTRIAL NOTES.

THE STANDARD ASPHALT & RUBBER CO., of Chicago, announces the removal of its general offices to the Home Insurance Bldg., 205 LaSalle St., Chicago.

THE McKELVEY MACHINERY CO. announces the removal of its New York City office to 6 Albany St., where a stock of McKelvey concrete mixers, buckets, etc., will be carried.

THE F. D. CUMMER & SON CO., of Cleveland, Ohio, advise us that they have recently sold one of their large one-car portable asphalt paving plants to the American Asphaltum & Rubber Co.

THE BELMONT IRON WORKS, Philadelphia, Pa., Samuel Chandler, Contracting Agent, New York, announces that on and after March 1, 1909, its New York office will be located at Hamburg-American Bldg., 45 Broadway.

THE RAIL JOINT CO. announces that Mr. Fred A. Poor will be in charge of its Chicago office (Monadnock Building) after March 1. He has been in Europe in charge of the company's foreign business, and was formerly with the Weber Railway Joint Mfg. Co., and with the engineering department of the Illinois Central Ry.

THE FOUNDATION COMPANY, 115 Broadway, New York City, has started a contract for the installation of the foundations for the Stock Quotation Telegraph Co.'s building at No. 26-28 Beaver St., New York. These foundations will consist of 16 pneumatic caissons carried to a satisfactory footing. The general contract is with the Thompson-Starrett Co., of New York, under the supervision of Clinton & Russell, Archs.

WILSON-MILLER CO., engineers and machinists has been incorporated with a capital of $25,000. Their shop, formerly occupied by W. D. Forbes & Co., is located at 1300 Hudson St., Hoboken, N. J., where they will conduct an engineering and general machine shop business, making a specialty of designing and building, to order, electrical apparatus, gasoline engines, etc., for commercial vehicle, marine and stationary use. Attention will also be given to experimental work and the design of special machinery.

HOSKINS MFG. CO., formerly the Hoskins Company, of Chicago, has opened its new plant and general offices at 453 to 471 Lawton Ave., Detroit, Mich. Here the company has an extensive factory, new equipment and enlarged facilities for making and distributing its established line of electric furnaces, pyrometers and heating appliances. With the reorganization and increase of capital to $500,000, the management remains the same as before. The officers of the company are: Hoyt Post, Pres.; W. W. Talman, Vice-Pres. and Sales Mgr.; E. F. Hoskin, Gen. Mgr. and Treas.; Johnathon Palmer, Jr., Secy. A. L. Marsh will continue in the capacity of electrical engineer for the company.

THE WAR DEPARTMENT has formally approved the plans prepared by the Amburssen Hydraulic Construction Co., Constructing Engineers, for the development of the Twin City Power Co. on the Savannah River above Augusta, Ga. The plans involve a rollway 60' high and 1,670' long, a power house 250' long and a bulkhead section 80' high and 1,000' long. The design is proportioned to carry a flood of 300,000 second feet, which was the discharge of the great flood of 1908, the highest on record. This will give a depth of substantially 16' of water on the rollway. The plans include a flight of three locks in view of possible future requirements of navigation. Work has already been commenced, but will not proceed actively until after the subsidence of the spring floods. Nesbit Wingfield, City Engineer of Augusta, Ga., and Wm. H. Burr, of New York are the Consulting Engineers.

THE BUSINESS BOOKED during the week by the Crocker-Wheeler Co., Ampere, N. J., includes among other large orders, one for two 400-KW. 575-volt engine-driven railway generators for the city of Edmonton, Alberta, Can. The Michigan Alkali Co., Wyandotte, Mich., has placed an order for 95-HP. in small motors with which to equip their plant. An order for eight form W rolling mill motors, aggregating 170 HP., has been placed by the Alliance Machine Co., Alliance, O. A notable motor application will be that of the 125-HP., 230-volt motor to operate a friction saw, which has just been ordered by the Pettibone Mulliken Co., Chicago, Ill. The Hanover Street Trust, Boston, Mass., is adding a small three-wire balancer to its equipment. This building already has about 100 KW. of generating apparatus of Crocker-Wheeler make. A number of other orders have been received for D. C. and A. C. generators of various sizes and a large number of small motors.

TRADE PUBLICATIONS.

FAN MOTORS.—Westinghouse Electric & Manufacturing Co., Pittsburg. Circular 1165. Paper; 7 × 10 ins.

In an attractive catalog this company has set forth its 1909 line of fan motors.

CONTRACTORS.—Fred T. Ley & Co., Inc., Springfield, Mass. 9 × 6 ins.; pp. 29; illustrated.

The catalog comprises views of the various kinds of construction, mainly in concrete, built by this company during the year past.

FAN MOTORS.—General Electric Co., Schenectady, N. Y. Pamphlet 3740. Paper; 3½ × 6 ins.; pp. 23.

This little booklet gives a brief resume of the 1909 line of fan motors of various types put out by this company.

STRUCTURAL IRON MACHINERY.—Standard Bridge Tool Co., Pittsburg, Pa. 9 × 6 ins.; pp. 16; illustrated.

This pamphlet is devoted to the description of the "Thomas Spacing Table" for bridge shops.

STEEL SHEET PILING.—George W. Jackson, Inc., Chicago, Ill. 10 × 7 ins.; illustrated.

This is the last catalog of the company showing photographs and drawings of the latest uses of the special sheet-piling made by the Jackson Co.

CONCRETE CHIMNEYS.—The Weber Co., 929 Marquette Bldg., Chicago. Paper; 6 × 9 ins.; pp. 24; illustrated.

The pamphlet gives a review of the development of concrete chimneys of the Weber system, and a reply to a report which contained some criticisms of concrete chimneys.

ROCK DRILLS.—The J. Geo. Leyner Engineering Works Co., Littleton, Colo. Paper; 6 × 9 ins.; pp. 8; illustrated.

This pamphlet contains reprints of articles on tunneling, including one from "Engineering News" on a new record in driving tunnels in hard rock.

OPEN-HEARTH FURNACE.—The Blair Engineering Co., 21 Park Row, New York. 7 × 10 ins.; pp. 8; illustrated.

This company has a patented post for open-hearth furnaces which tends to prolong the life of the furnace. It has been tried at several large plants and proved very economical.

CONCRETE MIXER.—The T. L. Smith Co., 305 Old Colony Bldg., Chicago, Ill. 5 × 6 ins.; pp. 16; illustrated.

The company named above is the successor to the Contractors' Supply & Equipment Co., which formerly handled the well-known Smith mixer and the Symons crusher. This latest catalog describes these two devices.

TRADE PUBLICATIONS.

UNIT STEEL REINFORCEMENT FOR CONCRETE WORK.—The Universal Unit System, 132 Nassau St., New York, N. Y. Paper; 9 × 12 ins.; pp. 4; illustrated.

This circular gives diagrams and prices of a variety of arrangements of unit reinforcement for columns, beams, walls, retaining walls and special work.

HIGH TENSION OIL SWITCHES.—Kelman Electric and Manufacturing Co., 612 North Main St., Los Angeles, Cal. Bulletin and paper; 7 × 10 ins.; pp. 23; illustrated.

A line of oil switches for breaking circuits of 15,000 to 110,000 volts, developed particularly for western power plants is described and pictured.

MERCURY RECTIFIERS. — Westinghouse Electric & Manufacturing Co., Pittsburg. Circular 1148. Paper; 7 × 10 ins.; pp. 20; illustrated.

Mercury rectifier outfits for charging storage batteries from alternating-current lines are treated in this bulletin. The action of the apparatus and the construction of the outfits are described at length.

TROLLEY-POLE BASE.—General Electric Co., Schenectady, N. Y. Bulletin 4642. Paper; 8 × 10½ ins.; pp. 2; illustrated.

The bulletin contains a complete description including illustrations and dimensions of a new trolley base designed especially to fulfill the requirements resulting from the increased speed of interurban cars and the consequent severe conditions.

AIR-COMPRESSOR GOVERNORS.—Westinghouse Traction Brake Co., Pittsburg. Pamphlet T 5042. Paper; 5 × 7 ins.; pp. 18; illustrated.

This book is an instruction book on electric-pump governors, the construction, operation, regulation and maintenance of these devices for automatically controlling the operation of motor-driven air compressors, are explained.

CONCRETE REINFORCEMENT.—Mississippi Valley Construction Co., Fullerton Bldg., St. Louis, Mo. 8 × 6 ins.; pp. 10; illustrated.

The title of the pamphlet is "Slant-Rib Bars for Reinforced-Concrete Construction." It describes a newly patented bar of oblong section with outstanding slanting ribs on each of its long faces.

POWER STATION APPARATUS.—General Electric Co., Schenectady. Bulletins 4638, 4640, 4643 and 4644. Paper; 8 × 10½ ins.; pp. 10, 10, 12, 6; illustrated.

The first bulletin is of assistance and interest to central station managers. An effort has been made to discuss only representative cases, pointing out both the desirable and undesirable features of the arrangements, dimensions and connections of various styles of boards.

The second bulletin is devoted to large transformers; some of the more important points regarding the relative merits of the different types of large transformers manufactured by this company are set forth. It contains information intended to assist a customer in determining whether the air blast or water cooled transformers will be more suitable for a given installation.

No. 4643 describes two lines of switchboard instruments. The difference in the two types is mainly in the size of the instruments. All are circular in shape and have prominent and well-lighted scales and large needles. The bulletin contains illustrations of the scales of the various instruments, catalog numbers and prices.

No. 4644 describes a motor generator set particularly suited for use in connection with searchlights, welding, for power work or as a reversible booster for battery service. This company has acquired the Rosenberg patent rights for America and is making these machines after those designs. With these motor generators a rising current with falling current, or vice versa can be generated.

For other Proposal Advertisements see pages 43, 44, 45, 46, of Advertisements and Construction News page 74.

QUARTERMASTER'S OFFICE, West Point, N. Y., March 4, 1909.—Sealed proposals, in triplicate, subject to the usual conditions, will be received at this office until 12 o'clock, noon, March 19, 1909, for furnishing and installing an electrical distributing and street lighting system for the Cadet Camp, as per drawings and specifications in this office. Proposals from manufacturers of electrical cable only will be considered. The United States reserves the right to accept or reject any or all proposals. Forms furnished upon application to this office. Address QUARTERMASTER, West Point, N. Y.

CATSKILL AQUEDUCT.

CONTRACT 16.

New York, N Y.

Sealed bids or proposals will be received by the Board of Water Supply, in the office of the Board, 299 Broadway, New York, Room 910, ninth floor, until 11 A. M., on March 25, 1909, for the construction of about 2½ miles of plain concrete aqueduct, known as cut-and-cover aqueduct, 17 feet high by 17½ feet wide inside, between New Hurley and a point about 2 miles east of Wallkill, in the town of Shawangunk, Ulster County, New York, approximately 13 miles southwest of Poughkeepsie.

An approximate statement of the quantities of the various classes of work and further information are given in the Information for Bidders, forming part of the contract. At the above place and time the bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Board as soon thereafter as practicable.

Two or more bonds, the aggregate amount of which shall be two hundred and fifty thousand dollars ($250,000), will be required for the faithful performance of the contract. No bid will be received and deposited unless accompanied by a certified check upon a National or State bank, drawn to the order of the Comptroller of the City of New York, to the amount of twenty thousand dollars ($20,000).

Time allowed for the completion of the work is 42 months from the service of notice by the Board to begin work. Pamphlets containing information for bidders, form of contract, specifications, etc., and pamphlets of contract drawings, can be obtained at Room 1515, at the above address, by depositing the sum of ten dollars ($10) for each pamphlet, or twenty dollars ($20) for each set, to insure their return in acceptable condition within thirty days from the date upon which bids are to be opened.

JOHN A. BENSEL,
President;
CHARLES N. CHADWICK,
CHARLES A. SHAW,
Commissioners of the Board of Water Supply.
J. WALDO SMITH,
Chief Engineer.
THOMAS HASSETT,
Secretary.

SEWER.

OFFICE OF THE COMMISSIONERS OF SEWERAGE OF LOUISVILLE, KY.
Incorporated.

Sealed proposals for the construction of a sewer known as Section "G" of the Southern Outfall Sewer, Contract No. 29, of the Comprehensive System of Sewerage for the City of Louisville, Ky., will be received at the office of the Commissioners of Sewerage until 12 o'clock noon, March 26th, 1909.

The work will consist mainly of building a reinforced concrete sewer of three sizes—10 ft., 7 ft. 8 ins., and 7 ft. diameter; total length about 4,061 ft. and from 16 ft. to 33 ft. deep; and including about 3,700 cu. yds. of concrete, and 300,000 lbs. of steel.

Plans and specifications may be seen at the office of the Commissioners and at the office of Harrison P. Eddy, Consulting Engineer, 14 Beacon St., Boston, Mass.

Sealed bids should be endorsed "Proposal for Sec. "G" Southern Outfall Sewer," and addressed to the Commissioners of Sewerage, Equitable Building, Louisville, Ky. Each bid must be accompanied by a certified check for at least seven per cent. (7%) of the total amount of the bid, or a "Bidder's Bond," as described in the form of proposal.

W. C. NONES, Chairman.
CHAS. P. WEAVER, Secy. & Treas.
J. B. F. BREED, Chief Engineer.

SEWERS.

Angola, Ind.

On March 29th, 1909, at 7.30 p. m., bids will be received by the Common Council of the City of Angola, Steuben County, Indiana, for the construction of one main sewer and sewage disposal plant. Engineer, R. L. SACKETT, of Lafayette, Indiana.

CATSKILL AQUEDUCT.

New York, N. Y.

Sealed bids or proposals will be received by the Board of Water Supply, in the office of the Board, 299 Broadway, New York, Room 910, ninth floor, until 11 A. M., on March 30, 1909, for Contract 25 for the construction of Croton and Chadeayne tunnels, Kitchawan and Millwood North cut-and-cover, and a portion of Croton cut-and-cover in the Croton division of the Catskill aqueduct, in the towns of Yorktown and New Castle, Westchester County, New York. The tunnels are on the hydraulic gradient and are 3,000 feet and 700 feet long, respectively, and 17 feet high by 13½ feet wide inside. The portions of cut-and-cover aqueduct are of plain concrete, 17 feet high by 17½ feet wide inside, and aggregate 13,200 linear feet.

An approximate statement of the quantities of the various classes of work and further information are given in the Information for Bidders, forming part of the contract. At the above place and time the bids will be publicly opened and read. The award of the contract, if awarded, will be made by the Board as soon thereafter as practicable. The Board may reject any or all bids.

Two or more bonds, the aggregate amount of which shall be three hundred thousand dollars ($300,000), will be required for the faithful performance of the contract. No bid will be received and deposited unless accompanied by a certified check upon a National or State bank, drawn to the order of the Comptroller of the City of New York, to the amount of thirty thousand dollars ($30,000).

Time allowed for the completion of the work is 52 months from the service of notice by the Board to begin work. Pamphlets containing information for bidders, form of contract, specifications, etc., and pamphlets of contract drawings, can be obtained at Room 1515, at the above address, by depositing the sum of ten dollars ($10) for each pamphlet, or twenty dollars ($20) for each set, to insure their return in acceptable condition within thirty days from the date upon which bids are to be opened.

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President;
CHARLES N. CHADWICK,
CHARLES A. SHAW,
Commissioners of the Board of Water Supply.
J. WALDO SMITH,
Chief Engineer.
THOMAS HASSETT,
Secretary.

NOTICE TO CONTRACTORS.

A Civil Engineer, with 5 years' experience as superintendent in contract work, desires an engagement. Good organizer and capable of getting results. Foundations, rock excavation, tunnels, reinforced concrete, dredging and steam shovel work. Address "H. A. 9," Engineering News, New York. 9-2t

Situations Wanted

Mechanical and Electrical Engineers.

MECHANICAL ENGINEER, 15 years' practical experience steam power plants, steam and hot water heating and ventilating, designing, estimating and managing construction; desires position with contractor, engineer, builder or architect doing work in this line. Would consider proposition taking working interest in business with right parties in or near New York. Address "S. 7," Engineering News, New York. 9-1t

Mechanical Engineer

Technical graduate, with 8 years' varied experience, wishes to connect with engineering contractors or operators in SOUTHWEST or SPANISH speaking country. First-class proposition only considered. Address "R. B. 9," Engineering News, New York. 9-2t

Surveyors.

INSTRUMENTMAN, Cooper graduate, three years tunnels, sewers, foundations, concrete inspection. Go anywhere. Address "F. A. 9," Engineering News, New York. 9-2t

Bridge and Structural Engineers.

GRADUATE, Trondhjem [illegible]versity, Norway, with one year post [illegible]duate work on reinforced concrete a[illegible]rches at Carlsruhe University, Ger[illegible]y; four years' experience detailing, [illegible]sking and estimating with American [illegible]ge companies; two years in bridge [illegible]rtment of large Western railway, [illegible]ing sub and superstructures for [illegible] bridge work desires position as de[illegible] or in charge of work, either struc[illegible] or reinforced concrete. Will go a[illegible]ere. Address "K. A. 9," Engineerin[illegible]s, New York. 9-2t

Draftsmen.

WANTED—By lady, positio[illegible] draftsman in engineer's office; salar[illegible]oderate. Address "F. A. 6," Engin[illegible] News, New York. 9-1t

Superintendents, [illegible], etc.

CEMENT-MECHANICAL E[illegible]NEER, technical graduate, wants po[illegible]ion as assistant superintendent at [illegible]land cement plant. Good mechanic, [illegible] had excellent experience for this [illegible]k. Address "M. A. 9," Engineerin[illegible] News, New York. 9-1t

WANTED—Position with con[illegible]te construction engineer; mechanical [illegible]bility; good, bright, young man of [illegible] single; go anywhere; fair education [illegible]usiness like. Address "L. A. 9," Engi[illegible]ering News, New York. 9-1t

ENGINEER SUPT.; 4 years' [illegible]xperience in charge of foundation work, concrete and general building construction; work in office or field. Address "P. B. 9," Engineering News, New York. 9-2t

POSITION WANTED—Superintendent or foreman, any building construction; extensive experience reinforced concrete, fireproof construction; highest testimonial; go anywhere. MAY, 76 Bank Street, New York. 9-1t

SUPERINTENDENT; hustler; any location; age 39; many years experience on general public work; river work preferred. Address "I. A. 9," Engineering News, New York. 9-4t

ARCHITECT OR BUILDERS' SUPERINTENDENT.—A young Engineer desires to make a change to a milder climate; seven years' experience, four years with large Eastern railroad, as transitman and draftsman, three years with a New York builder as engineer and general supt. of construction in full charge of buildings from start to finish. Best references furnished. Address "P. B. T.," 44 Chestnut St., East Orange, N. J. 9-2t

ENGINEER AND SURVEYOR, with office and business in the suburbs of Chicago, wishes to associate with Chicago Engineer requiring an assistant. Technical graduate experienced in paving, sewer and railway engineering and construction, track designs and track construction. Have field and office outfit. Member W. S. E. Address O. A. 9," Engineering News, New York. 9-2t

Situations Open

WANTED—A man familiar with the construction end of concrete to sell the most improved concrete machinery; must have good presence and be able to talk to contractors in a convincing manner. A liberal proposition on a strictly commission basis is open to the right man. Give age and experience. Address "S. B. 9," Engineering News, New York. 9-1t

Miscellaneous Wants

AN EMINENT FIRM OF ENGINEERS in England are prepared to undertake representation and manufacture of patented foreign specialties. Address "E 42," Birchall's Advertising Office, Liverpool. 9-1t

FOR SALE

Road Contractors

For sale or will rent all or any part of

6 Road Building Plants 6

Consisting of Buffalo Pitts Rollers, Climax Crushers, Portable and Mounted Bins, Dump Carts, Dump Wagons, Spreading Wagons, Road Locomotives and Cars, Wheelbarrows, Scrapers, etc.

HARVEY B. SPROUL
BOX 126 PEEKSKILL, N. Y.

WHEN WRITING ADVERTISERS.

Every advertiser is rather interested to know how you got his name, and we would request that when you write, you state that you secured it from the advertisement in

ENGINEERING NEWS